

# Beatrix “Betsy” Carroll

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EDUCATION	<b>Columbia University in the City of New York, Fu Foundation School of Engineering &amp; Applied Sciences</b> (2018) Masters of Science, Computer Science (Machine Learning Track) <b>Columbia University in the City of New York, School of Professional Studies</b> (2015-2016) Postbaccalaureate Studies of Computer Science (non-degree program, was completing pre-reqs for grad program) <b>Columbia University in the City of New York, Columbia College</b> (2007-2011) B.A., Architecture and Mathematics
TECH/C.S. SKILLS	Agile Methodology • Database Design • Deep Learning • Machine Learning • ML For Laboratory Sciences • Fair ML • Mobile Robotics • Graph Theory • Graphs and ML for Social Networks • Hardware Programming • Recommender Systems • Tech Talk Presenter • Web Development • Quality Assurance Python • Pandas • Tensorflow • C • C++ • Java • Javascript • Elixir • React.js • R • Redux • D3.js • Ruby • Rails Amazon AWS • Databricks • ElasticSearch • Google Cloud Platform • • Vertica • SQL • Sendgrid
DESIGN SKILLS	Rhinoceros 3D • Grasshopper for Rhino • Parametric Design • Google Sketchup • Adobe Photoshop • Adobe Illustrator • Adobe InDesign • Adobe Express Layout & Graphic Design • Logo & Merch Design • Costume Design • Studio Architecture Design Methodology • Physical Model Construction • 3D Modeling for Artist Clients • Product Design with Client Feedback Loop
ENGINEERING EXPERIENCE	<b>Hired Inc</b> , New York, NY 4/2021 – 1/2023 <i>Data-science powered platform connecting job-seekers to top companies, specializing in the tech industry, merged with Vettery</i> <u>Machine Learning Engineer Level II</u> <ul style="list-style-type: none"><li>• Machine Learning Engineer on the Autocuration Model, one of our two main models in our ML arsenal<ul style="list-style-type: none"><li>o Autocuration is a binary classifier that is applied to all prospective candidates; it's output is a float that indicates the model's confidence that a given candidate will achieve "success" on the platform</li></ul></li><li>• Led point on and launched Autocuration for Sales candidates, a totally new business vertical (had been previously only used Autocuration for tech roles), which entailed:<ul style="list-style-type: none"><li>o assessing business opportunity via exploratory data analysis to determine if the ML/Data perspective can endorse the decision to launch Autocuration for Sales in the first place. Ultimately decided to do it as a trial and monitor it closely post launch</li><li>o collaborating with business stakeholders to incorporate their result requirements and financial interests into my assessment, and throughout the entire process</li><li>o communicating findings to business stakeholders, the tech team, and C-level people via product demo's, brainstorming meetings, and ongoing back and forth</li></ul></li><li>• Led point on Racial Bias Mitigation initiative for Autocuration Model<ul style="list-style-type: none"><li>o had concerns that there would be an issue with racial bias in our Autocuration model before I was even on the ML team, and therefore...</li><li>o did a Hackathon project that proved that this was likely an issue for us with a very visually convincing and educational demo</li><li>o tried out various bias mitigation techniques (including upsampling, reweighing, stepping away from "fairness through unawareness", and more) that I found through my own research and self-education, including reading Fair ML book, research papers, and more casual articles on up to the minute experiments</li></ul></li></ul> <b>Vettery Inc</b> , New York, NY 11/2018 – 4/2021 <i>Hiring platform similar to Hired, merged with Hired</i> <u>Software Engineer Level II</u>

- Software Engineer on and integral to most highly-performing engineering squad at Vetterly,
- Specialize in projects to replace legacy code that is imperative to core business but outdated in terms of best practices, including:
  - rebuilding our anonymized email system (which was previously in php and very brittle and monolithic) in python
  - building a framework for bi-directional integration with applicant tracking systems
- Build new features from end to end, but own the python backend and oversee decisioning on that for our team
- Languages use include Python, Javascript; integrations built include ElasticSearch, Sendgrid, Segment, Chartio

**John Done AI**, New York, NY

5/2018 – 9/2018

*Voice activated virtual personal assistant designed for business calls.*

Cofounder

- Helped conceive, build, and bring to market a conversational AI product, using natural language understanding, automatic speech recognition, and text-to-speech.
- Technologies included Elixir/Phoenix, Javascript (and React.js and Redux), and Google Cloud Platform

**Intent Media**, New York, NY

10/2011 – 10/2015

*Online advertising solutions for the travel industry.*

Software Engineer

1/2015 – 10/2015

*Techops Team*

- Worked within a team of engineers to develop production quality tools for internal usage amongst all the software engineers
- Refactored existing messy code to be more objected-oriented and scalable
- Owned and added features to a Ruby on Rails application in which all employees could manage their database accounts, all admins could control permission levels on various internal tools, and software engineers could run releases and view information about ongoing and past releases

*Advertiser Squad*

- Created features in the extranet, the client facing site on which publishers and advertisers manage their accounts (Ruby, Javascript)
- Implemented the ad auction functionality that corresponded with the features I created in the extranet (Java)
- Wrote tests for all new features added, and made sure all existing tests still pass after adding each small incremental change

Quality Assurance Engineer

1/2013 – 10/2014

- Transitioned to QA from non-tech data analysis role after taking an interest and acting on it
- Successfully onboarded and become a valuable team member in a short period of time
- Conducted a variety of testing techniques including manual functional testing, regression testing, system integration testing, cross browser testing, and non-functional testing
- Worked closely with tech and product managers to promote successful delivery of products and services
- Exploited knowledge gained in previous role at same company to improve team's understanding of non-tech side of the company and drive improvements of current tools for maximum impact

Business Analyst

10/2011 – 12/2012

- Created data visualizations and analyses that convey a compelling story in order to convince our clients of how to best manage their accounts and adjust their spend
- Onboarded with no prior Excel, mySQL, Tableau or TreeMaps experience and became very skilled at all through self-teaching

## EXPERIENCE

*Steakhouse beloved by Greenpoint Locals*

### Merch Designer

- Created design for merch from scratch, using photo inspiration (view designs [here](#))
- Incorporated client feedback to iterate on design and come up with several different styles of logo and merch options

**Nicole Cohen, Visual Artist**, New York, NY

7/2011-12/2011

*Visual Artist who works with film, installation, and collage*

### 3D Modeler

- Used Rhinoceros 3D to create computer models of this artist's sculpture
- Worked collaboratively with fabricators and the artist to incorporate changes
- Utilized my architectural training to assist in planning all project steps, including preparing and revising drawings with detailed measurements and instructions for fabricators
- The sculpture that I built using Rhino was fabricated and is now on permanent exhibition at the Pacific Design Center in Los Angeles beginning in September 2011
- press release [here](#)
- my 3D model [here](#)
- photo of actual sculpture [here](#)

**Inside New York 2011**, Columbia University, New York, NY

5/2010-1/2011

*The [2011 edition](#) of a constantly-updated New York City Guidebook for college-age people*

### Layout Editor, Photography Editor, and Staff Writer

- Designed the look and layout, controlling all aesthetic aspects of this 400+ page guidebook to NYC
- Created a logical structure for the book, driving all decisions to create a visual manifestation of that logical order
- Determined all photography requirements, delegated photo assignments to staff, and edited photos on Photoshop
- Did all the actual laying out of the book, singlehandedly, in Adobe InDesign

**Tino Sehgal's "This Progress,"** Guggenheim Museum, New York, NY

1/2010-3/2010

*Critically Acclaimed Performance Art Piece*

### Performer

- Engaged the museum visitor in challenging intellectual discussions
- Deduced the visitor's own ideas on progress through intellectual and philosophical discussion
- Challenged the visitor with contrapuntal arguments, thus expanding the visitor's perspective
- Was chosen by Sehgal to do interview for *The New York Times* March 12, 2010 [article](#)

**Alfredo Jaar**, Artist, Architect, and Filmmaker, New York, NY

5/2008-1/2010

*Renowned Conceptual Artist, Winner of the McArthur Fellowship*

### Project Director of Proposal for "SCL2110", Bicentennial Exhibition of Chile

9/2009-1/2010

- Assisted Jaar in conceptualizing his architectural proposal for the site of the Santiago markets
- Researched extensively the social, political and architectural history of the markets in Santiago, creating a research paper to inform Jaar's proposal
- Traveled to Santiago, Chile to conduct visual and photographic analysis of the site
- Met with the curators of SCL2110, interviewed professors specializing in the sociology of the markets, as well as locals
- Managed to do all this while being a full time student, going into the studio on weekends and during my free time

### Project Director of "Project Emergencia," a Public Intervention Web Site

5/2009-8/2009

- Conducted exhaustive research on HIV/AIDS in Sub-Saharan Africa
- Reached out to NGO's to advertise the site and convinced them to link their site to projectemergencia.net
- Designed the structure and content of the [site](#) to fulfill purpose of raising awareness and providing the best channels through which the visitor can help and donate

Assistant to Mr. Jaar

5/2008-8/2008

- Catalogued all works written on Jaar to compile his comprehensive Bibliography
- did all other administrative and organizational tasks for the studio

INTERESTS

**Stand Up Comic** - videos [here](#)

- Performed Monday's at Caroline's on Broadway for years
- Performed semi-weekly at The Stand for years
- Perform semi-weekly at Eastville Comedy Club
- Perform regularly at several other venues around the city, including Gotham Comedy Club, West Village Comedy Club, Broadway Comedy Club, Black Cat LES, Gold Sounds in Bushwick, and the Metropolitan Room
- Have shared the stage with many greats such as Jim Gaffigan, Todd Barry, and Nikki Glaser

**Visual Artist** - artwork [here](#)

- Completed over 20 commissioned dog portraits for satisfied customers
- Also do fine arts oil paintings available for sale [here](#)

**Many other hobbies found** [here](#)