

EDUCATION

University of Rochester

Rochester, NY

Bachelors in Computer Science, Minor Economics (3.1/4.0)

Aug. 2015 – May. 2019

- **Relevant Coursework:** Data Structures & Algorithms, Computer Organization, Computer Architecture, Computation Theory, Compilers, Software Analysis, Artificial Intelligence, Programming Design, Web Applications, Mobile Applications, Linear Algebra, Discrete Mathematics

EXPERIENCE

Credit Suisse

New York, NY

Software Engineer - Trade Management Technology

June 2019 - Present

- **Trade Portal:** Improve web application that unlocks & updates trades by removing long-polling and creating additional socket service layer (20s to 5s). Configure server-side caching and compression. Create service that attaches users to trading channels and feeds real-time data using Python, SocketIO, Swagger, Flask, and MongoDB. Build monitoring tool with React to monitor application health.
- **Trade Activity Services:** Add REST endpoints to Java Spring backend that finds and updates trade XML stored within SQL databases and returns transformed/minified JSON; attach user entitlements to handlers.
- **Data Analytics:** Developed backend NLP application with Python and Flask to improve global markets sentiment analysis model; provides a thin REST layer on top for serving computed data downstream; used spaCy neural coreference resolution and named entity recognition. Worked in Jupyter Notebook environment

BNY Mellon

New York, NY

Remote Software Engineer - Data Solutions

Sept 2018 - May 2019

- **Portfolio Dashboard:** Collaborated with investment management team to create a reporting platform which lets clients log-in, upload data, generate reports, and visualize specific fund performances. Developed application using React, Redux, and AWS Amplify. Used Enzyme and Jest for testing suite and pipeline; deployed with Netlify. Leveraged third-party and internal API's.

Army National Guard

New York, NY

Remote Software Engineer - Anti-Opioid

Sept 2018 - May 2019

- **Interlink Analytics:** Designed and developed the front-end of a counterdrug task force's patient portal which records, tracks, and alerts drug overdoses using React and Redux. Contributed extensively to backend server, API, and databases using Node.js, Express, MongoDB. Refactored and updated codebase for scalability; added all documentation. Created flexible EC2 instances, setup and configure Nginx, AWS S3 for bulk data storage, and Route 53 for domain management.

Union Square Practice

New York, NY

Software Engineering Intern - Web

Summer 2017

- **Website:** Developed custom content management system for handling login, registration, profiles, and blogs using PHP, MySQL, HTML and (S)CSS; worked in Linux (Ubuntu) environment. Integrated payment system using Stripe API. Managed project via GitLab, enforced continuous integration and deployment using GitLab CI.

University of Rochester

Rochester, NY

Teaching Assistant

Jan 2016 - Jan 2019

- **[3 Semesters] Data Structures & Algorithms:** lead weekly workshops of 10-15; graded coding assignments. Topics included sorting, dynamic programming, runtime analysis, abstraction, and object-oriented programming.
- **[5 Semesters] Web Applications:** mentored and lead small agile development teams; reviewed student architectures, database designs, coding progression, and workflows over 4 months.
- **[2 Semesters] Intro to Computer Science:** lead weekly workshops and tutoring sessions 5+ hrs/week. Topics included expressions, flow control, recursion, encapsulation, constructors, methods, and packages.

TECHNICAL QUALIFICATIONS & AWARDS

Languages: JavaScript (ES6), Python, Java, HTML, CSS/Sass, GraphQL, SQL, MongoDB, L^AT_EX

Libraries & Frameworks: React, React Native, Redux, Gatsby, Node.js, Express, AWS Amplify, Django, Swagger

Tools & Platforms: Git, Webpack, Netlify, Heroku, Docker, Jupyter Notebook, SVN, Linux, AWS (EC2, S3)

Design: Sketch, Flinto, Zeplin, Prototyping, Wireframing

Awards: 2018 Credit Suisse Hackathon (3rd Place), 2018 RIT BsidesRoc Hacker CTF (6th Place)