

Amanda L. Chiu

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EDUCATION

New York University, New York, NY

Sept 2016 - May 2020

B.A. in Computer Science, Minor: Mathematics

GPA 3.7 / 4.0 | Dean's Honors List (2017, 2018, 2019)

NYU Shanghai 上海纽约大学, Shanghai, China

Sept 2018 - May 2019

Relevant coursework: Data Structures, Algorithms, Object-Oriented Programming, Parallel Computing, Information Technology in Business, Machine Learning, Linear Algebra, Probability & Statistics

EXPERIENCE

SIMON Markets LLC

July 2019 - present

Engineering Intern, Cloud Infrastructure & Security

- Implementing commercial Okta single sign-on user authentication system, via Serverless-deployed AWS Lambda that interfaces internal API to validate user before granting Okta access token for site access
- Built Python micro-service in AWS Lambda to filter and aggregate key security-related events from incoming S3 logs and send them as email alerts to analysts to monitor core AWS infrastructure changes
- Conducted meetings with various cloud-management platform vendors to learn, assess, and choose a vendor product to manage SIMON's core AWS infrastructure

NYU Tandon School of Engineering, Summer Research Program

Jun 2018 - Aug 2018

Researcher, Data Visualization

- Researched and designed web tool that visualizes temporal and textual patterns in email scamming activity, to discover how email scammers operate and develop proactive countermeasures against them
- Implemented web visualization tool using React, Redux, and ChartJS to display GraphQL data extracted from existing Elasticsearch data store via HTTP requests
- Led weekly meetings with mentors and cyber-fraud investigators to discuss project feature improvements

NYU Operations Technology Services

Jan 2018 - Jun 2018

Software Developer Intern

- Collaborated in team of 4 to develop front-end module in large-scale capital project management site used by 100+ administrators, managing average of \$300M in capital projects annually
- Wrote large-scale React-Redux-Typescript code and documented CRUD site interfaces editing capital projects
- Participated in Agile Scrum meetings to share daily progress and discuss work division for upcoming sprints

PROJECTS

TutorMe

Mar 2018 - May 2018

<https://github.com/amandachiuu/tutorme-final-project>

- Designed proof-of-concept platform to connect NYU students to tutor or be tutored in any subject or course
- Developed platform on one-month deadline as a full-stack application using React, Express, and MongoDB
- Incorporated PassportJS for authentication, Axios for API calls, and deployed to Heroku with MLab data store

Best Invest

Oct 2017 - Oct 2017

Prize at BostonHacks Fall 2017 - Best Hack using RedHat OpenShift

- Ideated and developed web application in team of 3 using Flask and React that retrieves historical stock data from Alpha Advantage API and compares return investment on stocks vs. index funds held between two dates

SKILLS

Programming: Python, React, Redux, NodeJS, Javascript, HTML/CSS, Java, C, C++

Databases: MongoDB, GraphQL, SQL

Tools & Technologies: AWS, Git, Atom, Visual Studio, MS TFS, JIRA, Bash, Emacs, AxureRP Pro

Spoken: English (Native), Mandarin (Limited working proficiency)

ACTIVITIES & INTERESTS

Women in Computing, InnoVention Society, golf, photography, tutoring