

WORK EXPERIENCE

Splunk San Jose, CA
Software Engineer Sept 2022 – Present

- Build robust software tools and pipelines that automate configuration management and deployment on Splunk Cloud services.
- Deliver automated solutions for maintaining Puppet code logic and changes to facilitate feature development of external teams.
- Utilize Splunk queries and create dashboards to monitor and debug cloud automation incidents in production environments.

Software Engineer Intern June 2021 – Aug 2021

- Strategized and tested cloud migrations on compute-optimized processors, reducing costs on future stack deployments by 20%.
- Designed APIs to enable Terraform infrastructure changes without disrupting intermediary services in the automation workflow.
- Leveraged Splunk's ML tools and dashboards to analyze data trends on social inequalities correlated to vaccine distribution.

E*TRADE Financial Menlo Park, CA
Software Engineer Oct 2020 – May 2021

- Developed reusable software components to extend the DevOps and AppDev teams' toolsets for observability and monitoring.
- Built and enhanced Elastic Stack integrations to troubleshoot issues on 500+ deployments in all development environments.
- Leveraged Agile/Scrum and CI/CD best practices to streamline configuration management and ensure sustainable, quality code.

Software Engineer Intern June 2020 – Aug 2020

- Built data visualization tools using pandas and D3.js to pinpoint service issues and pipeline failures in each production rollout.
- Created web applications with dashboards using Plotly and Flask, then deployed and maintained using Docker and Kubernetes.

PROJECTS

DMV Chinese Practice Written Test July 2022 – Aug 2022

- Developed a React application to help my grandma prepare for the DMV senior renewal exam and practice online test taking.
- Compiled 250+ test questions using BeautifulSoup and pandas, and compared linguistic choices to the official DMV handbook.
- Designed UI from scratch and integrated feedback from usability tests to further enhance UX and implement quality features.

Investigating BLM Tweets with ML/NLP Wellesley College
Computational Analysis for Political Science (CAPS) Research Assistant Jan 2022 – May 2022

- Assessed the relevancy of BLM tweets by identifying key words and phrases manifested in the movement and policy platforms.
- Created baseline ML models using Naive Bayes and SVM classifiers in Scikit-Learn to compare with custom-built GCP models.

NLP Analysis of Consumer Reviews MIT Sloan School of Management
Team Lead, Research Assistant Sept 2019 – Aug 2020

- Managed and recruited a team to build a Flask web application that evaluated consumer reviews and visualized results with D3.js.
- Extracted user data from Yelp and synthesized review analyses with pandas, BeautifulSoup, and Google Natural Language AI.

EDUCATION

Wellesley College Wellesley, MA
B.A. in Computer Science, Minor in Statistics Sept 2018 – May 2022

- Cumulative GPA: 3.86/4.0 (Magna Cum Laude), Major GPA: 3.96/4.0
- Relevant Coursework: Algorithms, Computational Biology, Computer Systems, Computational Theory, Data Structures, Databases with Web Interfaces, Human-Computer Interaction, Linear Algebra, Regression Analysis
- Involvement: Grader (Algorithms), President of Wellesley Widows A Cappella Ensemble, VP of Chinese Students' Association

Massachusetts Institute of Technology (MIT) Cambridge, MA
Cross-Registered Student & Research Assistant Sept 2019 – May 2022

- Relevant Coursework: Artificial Intelligence, Machine Learning

SKILLS

- Programming/Markup Languages: Python, Java, JavaScript, C, Ruby, R, SQL, HTML/CSS, LaTeX
- Technologies/Tools: Git, Unix/Linux, React, Flask, Docker, Kubernetes, AWS, Puppet, Splunk, Elastic Stack
- Libraries: pandas, NumPy, TensorFlow, SciKit-Learn, BeautifulSoup