

Neel Shah

Software Engineering Intern | College Park, MD

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EDUCATION

University of Maryland | B.S. Computer Science, Minor in Statistics

College Park, MD | Aug 2021 – May 2024

- GPA: 4.0/4.0
- Awards: Dean's List (Fall 2021, Spring 2022, Fall 2022); OMSE Academic Excellence Award (2022)
- Member of the College Park Scholars: Environment, Technology, and Economy program (exploring sustainability issues)

EXPERIENCE

University of Maryland | Teaching Assistant

College Park, MD | Jan 2023 – Present

- Worked as a teaching assistant for CMSC131: Object-Oriented Programming I, an introductory computer science course that focuses on object-oriented programming using Java
- Held weekly office hours, where I answered students' questions on class material and provided guidance on projects
- Graded quizzes, exams, and projects for style and accuracy and offered constructive feedback

Capgemini Government Solutions | Technical Intern

McLean, VA | Jun 2022 – Aug 2022

- Worked on a robotic process automation (RPA) project for the Software as a Service (SaaS) capability team
- Automated the provisioning of users in Salesforce using data exported from an HR system, through the development of a UiPath attended bot with robust error/interruption handling capabilities, which reduced processing time by more than 80%, improved data accuracy, and freed up time for team members to work on higher priority tasks.
- Worked with 2 other interns to explore the viability of virtual reality (VR) for use by Capgemini Government Solutions and its clients, through hands-on experience with the Oculus Quest 2 and extensive market research, culminating in a presentation made to top company executives

Bloomberg | Software Engineering Intern

Dayton, NJ | Jun 2021 – Aug 2021

- Worked on the Fleet Automation Services team, which supports Bloomberg's large-scale technology infrastructure by developing tools used to automate operations
- Enabled Environment Support team to manage machine turnaround (maintenance operations) via a web application more efficiently by developing several features, including the ability to set different retry actions per host when rerunning failed jobs, using Angular (TypeScript) for the frontend and Django/PostgreSQL (Python) for the backend
- Created reproducible development/build environments for the Angular frontend by containerizing it using Docker
- Improved data visibility by publishing metrics for maintenance events, actions, and failures to a telemetry system via the Django backend and creating a filterable Grafana dashboard displaying timeseries graphs of these metrics

Bloomberg | Software Engineering Intern

Dayton, NJ | Jul 2020 – Aug 2020

- Worked on the Environment Support Site Reliability Engineering team, which automates machine turnaround (maintenance operations) for a fleet of over 30,000 servers
- Provided valuable insight into turnaround data for Environment Support team by developing an interactive web application to visualize metrics such as runtime, failure rates, and failure reasons at the host, schedule, and cluster levels, using React (TypeScript) for the frontend and Django/PostgreSQL (Python) for the backend

PROJECTS

Portfolio Website | neelshah.dev

Aug 2021 – Present

- Portfolio website which includes overview, contact information/links, about me, skills, education, experience, and projects
- Built responsive, mobile-friendly site using React (TypeScript); hosted on my own domain using Vercel

Factsvine

Nov 2019

- Site which summarizes news articles and evaluates them for fake news (built during 24-hour hackathon)
- Developed Flask web app using a natural language processing library and fake news detection API (Python)

SKILLS

Programming Languages: Java, Python, JavaScript, TypeScript, C, C#, SQL

Web Development: HTML, CSS, React, Angular, Express, Flask, Django

Other: Linux, Git, Docker, Node.js, Android, Unity, UiPath, Grafana, Jira