

Jason Shu

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EXPERIENCE

NetApp

Raleigh, NC

Software Engineer III

Jul 2023 – Present

- Modernize thousands of lines of monolithic Perl code into a modular Python library, enhancing maintainability and extending the longevity of automation tools used in testing workflows and CI/CD pipelines
- Collaborate with project managers and senior engineers to design and implement feature requests for automation tooling, significantly reducing repetitive time-consuming tasks in product development workflows
- Presented an Engineering Tech Talk to several hundred software and QA engineers, demonstrating best automation practices, encouraging adoption of shared technical standards, and fostering cross-team contribution

Software Engineer II

Jul 2022 – Jul 2023

- Led an initiative to replace hundreds of insecure legacy commands in favor of a REST API, achieving a 33% reduction in regression test durations and improving product security
- Shipped several first-party company products through cloud automation tooling and collaboration with QA engineers

Software Engineer I

Feb 2021 – Jul 2022

- Owned weekly tooling release cycles into production and swiftly resolved regressions in CI/CD pipelines
- Delivered time-sensitive QA requirements efficiently into a complex multi-cloud, multi-configuration tool
- Contributed to team talent growth by conducting interviews and mentoring new hires as a junior engineer

Software Engineer Intern

Jun 2020 – Aug 2022

- Automated a week-long manual regression testing process to under an hour, accelerating product release schedules
- Adapted to a fully virtual internship by maintaining proper time management and communication habits

Lockheed Martin Corporation

Moorestown, NJ

Software Engineer Intern

May 2019 – Aug 2019

- Collaborated with 3 interns to build, test, and deploy a GUI for the Aegis Combat System using enterprise software
- Participated in daily standups and gained hands-on experience with the SDLC and internal CI/CD pipelines

PROJECTS

PolyHeal (Hackathon)

Nov 2023

- Won overall best project and audience favorite at NetApp's first Generative AI Innovation Hackathon out of 30 teams
- Published an internal PyPI package that iteratively fixes script errors through automated validation and stacktrace analysis, resulting in increased developer time savings and code quality

NetApp AI Tooling Agents (Hackathon)

May 2023

- Developed AI agents for internal tools to enable interaction with AI models using company-specific terminology
- Implemented LangChain Custom Tools and OpenAI Function Agents in Python and hosted application on Streamlit

Scuttle (github.com/jshu-git/scuttle)

Jan 2021

- Adapted an in-person card game into a 2-player online experience using an open source game engine framework
- Implemented complex game mechanics, state management, lobby system, and deployed on Heroku

Vigor (github.com/jshu-git/vigor)

Jul 2017

- Published an iOS exercise app featuring customizable workouts, video tutorials, and a progress calendar
- Developed using Xcode and Swift libraries to parse data from web content

SKILLS

Languages: Python, Perl, Java, C, JavaScript, HTML/CSS, Go, SQL, Swift, Rust

Technologies: Git, Jira, Bitbucket, Jenkins, Cloud Computing (AWS, GCP, Azure), Docker, Vim, Unix/Linux

Other: Agile, Scrum, RESTful API, CI/CD, Confluence

EDUCATION

University of Maryland, College Park

Aug 2017 – Dec 2020

B.S. in Computer Science, Minor in Philosophy

GPA: 3.80

EXTRACURRICULAR

Young Women in Technology (WIT) Volunteer

2024 – Present

- Lead an annual LEGO Mindstorms robotics workshop, mentoring middle school students in STEM concepts, critical thinking, and hands-on problem-solving

Grace Hopper Celebration for Women in Technology (WIT)

2021 – 2022

- Volunteered in Women in Tech recruiting events to support graduate students seeking employment
- Coordinated within an event committee to schedule professional development workshops and manage event budget

University of Maryland Triathlon Team

Aug 2017 – Dec 2020

- Competed in collegiate triathlons and demonstrated strong commitment while balancing academic responsibilities