★ ★ ★ Janet Vu ★ ★ ★

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Education

University of Michigan Ann Arbor, B.S. Computer Science   Expected Graduation: May '21
➢ relevant coursework: Data Structures & Algorithms, Computer Security, Operating Systems, Web Systems   GPA: 3.33/4.00

Technologies

➢ C/C++, OCaml, Python, Javascript, Bash, Java, HTML/CSS, Linux, Git, Vim, Docker, Research, Agile

Work Experience

Google - Software Engineering Intern (Google Cloud Platform)   May '20 - now
➢ contributing to open-source OpenTelemetry (C++ SDK), the future application monitoring/tracing standard for cloud giants

The Aerospace Corporation - Software Development Intern (Small Satellite Department)   May '19 - Aug. '19
➢ engineered React and Redux state management updates to effectively view small satellite statuses and send commands
➢ sped up interface updates and communication between websocket & packets by 100%+ while eliminating handler violations
➢ deployed Dockerized site with nginx load-balancer and custom DNS to Linux cloud server for use across the department
➢ debugged Python Django backend issues with packetization while improving logging and documentation

University of Michigan - Research Assistant (Dr. Florian Schaub, School of Information)   Oct. '18 - May '19
➢ computed data-driven interactive visualizations using React and Plotly by cleaning JSON data and calculating statistics to demonstrate holes in student data sharing protections and opt-out options within university legal statements under FERPA

Projects

Gradual ALFA-ML   Jan. '20 - Mar. '20
➢ implemented a functional programming language using OCaml with function, number, boolean, product, and unit types
➢ integrated additional functionality like function application, gradual typing, branching, and mutable references in memory
➢ programmed type synthesizers, type analyzers, and statement evaluators that handled various unary and binary operators

Wikipedia Search Engine   Mar. '19 - Apr. '19
➢ created a robust distributed and multithreaded system between workers and masters over sockets to quickly process tasks
➢ developed a scalable Hadoop-like map reduce server that performed information retrieval using tf-idf and PageRank scores
➢ completed search engine stack with React frontend and SQLite database deployed to Amazon Web Services (Python backend)

Leadership

Michigan Hackers - Logistics Executive, Creative Director, Senior Advisor   Jan. '18 - now
➢ mobilized dedicated membership (top 50 students averaged 14 attendances each) by adding resources and incentives (team structure, competitions, attractive swag, media presence, etc) to enrich student professional, technical, and social development
➢ doubled attendance to 300+ unique semesterly sign-ins and dedicated membership average from 20 to over 50 students
➢ reduced time spent on attendance data parsing by 400% through innovating a comprehensive csv processing React interface
➢ advocated actively to support minority students through a women in tech channel (resources and notifications for programs, scholarships, and conferences) and other events like collaborations with Girls in Electrical Engineering and Computer Science

Other

➢ Rewriting the Code Fellow   Nov. '19 - now
➢ National Scholarship Winner from Rove Pest Control (sole winner out of 1000+ applicants)   Apr. '17
➢ Girls in Electrical Engineering & Computer Science - High School Outreach and Marketing member   Jan. '18 - now
➢ Vietnamese Student Association - Cultural Show Performer, Member   Sep. '17 - now
➢ Instructor-endorsed for Data Structures & Algorithms, Web Systems, Computer Organization, Computer Security class forums
➢ Interests in civic engagement, sustainability, design, PC gaming, Pokemon