Anh K. Nguyen

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EDUCATION

California State Polytechnic University - Pomona May 2020

B.S. Computer Science GPA: 3.2

EXPERIENCE

Intel, Folsom, CA

Software Developer Intern November 2019 – May 2020

- Built an interactive web app using Flask and Bootstrap that showcases performance advantages of Intel Optane Memory. Resulted in a partnership with a Major Company to model their distributed storage system with the optimal configuration of Intel SSD's.
- Added a feature to an internal Intel web app that allows users to download graphs by rasterizing the SVG's generated by D3.js to .PNG format. Implemented in Angular.js.
- Developed a plugin to automatically provision any Python version and their necessary dependencies onto air-gapped servers.
- Implemented Angular data bindings to update title pages dynamically based on page content and a feature to hide and show columns of a grid, greatly improving its usability.

Automation Engineering Intern May 2019 – November 2019

- Created a development plan for employing machine learning to detect faulty SSD firmware using TensorFlow, MongoDB, and Docker. Architected database schema that indexes SSD performance metrics.
- Wrote a framework using Python that provisions and deploys Intel SSDs, saving over 25 employee-hours per week.
- Resolved firmware issues and created unit tests to assess code base performance and validate components in software.
- Followed agile methodologies under two-week sprints to distribute story points amongst team members, increasing responsiveness to unexpected changes of requirements.

Printronix AutoID, Brea, CA February 2018 – August 2018

Software Engineering Intern

- Designed and developed a metrics aggregator for thermal printers to quickly analyze performance fluctuations resulting from feature changes. Written in Perl.
- Refactored schema of thermal output data for enhanced analysis and readability.

Cal Poly, Pomona, CA - Professor Hao Ji July 2017 – January 2018

Machine Learning Research Intern

- Created a convolutional neural network to develop a real-time facial recognition system that detects expressions of drowsiness. Implemented using Python and TensorFlow.

PROJECTS

Personal Projects Page anhknguyen.com

- Developed a web application with Bootstrap to display and demo personal projects.
- Configured the server to host multiple subdomains with NGINX server blocks to expose multiple docker containers in the backend.
- Wildcard SSL certificate automatically provisioned with Let's Encrypt.

Morse Web Application morse.anhknguyen.dev

- Built an interactive web app entirely in React for users to play with Morse code.
- Containerized app using Docker. Setup CI/CD pipelines with GitHub Actions to automatically publish to DockerHub and deploy to a DigitalOcean instance.

Event Calendar Web Service

- Developed an event calendar web service with MEAN stack (MongoDB, Express, Angular JS, and Node.js).
- Held weekly scrum meetings, managed development cycles of project, and used GitHub Issues to organize features and bugs.

SKILLS

- *Languages:* Python, Java, Go, JavaScript, TypeScript, HTML and CSS, Perl
- *Frameworks & Libraries:* React, Bootstrap, Angular.js, Node.js, Express
- *Tools & Technologies:* MongoDB, PostgresSQL, MySQL, Postman, Gitlab, GitHub Actions
- *Dev. Environment:* Ubuntu, Docker, Digital Ocean, Git