

## Anh K. Nguyen

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### EDUCATION

**California State Polytechnic University - Pomona**

*B.S. Computer Science*

May, 2020

GPA: 3.19

### EXPERIENCE

**Intel, Folsom, CA**

May 2019 – Present

*Software Developer Intern*

- Developed an interactive web app using Flask and Bootstrap that showcases performance advantages of Intel Optane Memory. Resulted in a partnership with Alibaba Cloud's Pangu 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.
- Created 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.
- 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.
- Constructed methodology to evaluate integrated RFID functionality into thermal printers.

### RESEARCH

**Machine Learning Research with Professor Hao Ji**

July 2017 – January 2018

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

### PROJECTS

**Project Manager of Machine Learning Team A.I. Project**

- Developed Speech-to-text (STT) and Text-to-speech (TTS) systems with TensorFlow to create a voice assistant that interprets verbal commands and performs various tasks. Used a LSTM (Long Short-Term Memory) RNN for STT/TTS and a low-pass filter to isolate speech from background noise.
- Directed two orthogonally positioned teams to meet project goals. Tracked team activity utilizing Gantt charts and organized weekly standup meetings.

**Northrop Grumman Collaboration Project: Unmanned Systems**

- Increased performance of collision avoidance modules by porting it from Java to C++.
- Assisted in research for a centralized communications network between unmanned drones.

**Software Engineering Web Service**

- Developed an event calendar web service with the 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.

**Network Security - Packet Sniffing**

- Intercepted TCP traffic between devices on a LAN using Wireshark and Kali Linux.

### SKILLS & COURSEWORK

- *Languages:* Python, Java, C, C++, JavaScript, Perl, Go, HTML and CSS
- *Technologies:* Linux, Unix and Scripting, MySQL, MongoDB
- *Frameworks:* TensorFlow, Numpy, Pandas, Angular.js, Express, Node.js, Bootstrap, Docker
- *Coursework:* Algorithms, Data Structures, Software Engineering, Operating Systems, Discrete Math, Assembly, Programming Languages, Computer Architecture, Database Systems, Artificial Intelligence, Computer Networks