Aria Pahlavan

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EXPERIENCE

Intel, Folsom, CA — *Software Engineer Intern*

MAY 2017 - JAN 2018

- Debugged 2 high-priority parser issues that reduced compilation time by 15% (45 min) through algorithmic improvements.
- Optimized a few thousand lines of legacy code by migrating it to an object-oriented design with concurrency support in C++.

Luminant, Granbury, TX — *Electrical Engineer Intern*

MAY 2016 - AUG 2016

- Developed a technical specification for an obsolete transformer by collaborating with 4 different engineering teams.

Texas Petawatt, Austin, TX — *Software Engineer Intern*

JUNE 2015 - AUG 2015

- Upgraded a laser-capturing software to make it compatible with 4 new cameras by refactoring and reimplementing the camera API's.
- Eliminated ~0.5 hour of daily time-waste in pumping a vacuum chamber by automating the process in LabVIEW and adding new hardware.

EDUCATION

University of Texas, Austin, TX — B.S. in *Computer Engineering*

AUG 2014 - MAY 2018 Major GPA: 3.41

Collin College, Plano, TX — A.S. in *Software Engineering*

JAN 2012 - MAY 2014 Major GPA: 4.00

PROJECTS

Celebtwin — *Personal Project* (React, Node, Express, PostgreSQL)

- Increase performance by lazy-loading routes and components, as well as, eliminating render blocking bundles in above-the-fold content.

See-Through ADAS — *Academic Honors Project* (Python, Android)

- Devised an object-tracking algorithm with 95% accuracy in a 30 minute test drive by utilizing and training a convolutional neural net (74.7 mAP score).
- Implemented a linear-time greedy algorithm to minimize the delay between two camera feeds to 5 milliseconds.

SKILLS

Methodology: OOP, FP, TDD Algorithms, Agile, Design Patterns.

Languages: JavaScript, Java, Python, C++, HTML, CSS.

ML/CV: Keras, OpenCV.

Front-end: React, Redux, Android.

Back-end: Node.js, Express, PostgreSQL, TravisCI, Git, Bash.

System Admin: Ubuntu, AWS, Heroku, Docker.

Limited exposure to: TensorFlow, MongoDB, Elixier, MySQL, JQuery.

AWARDS & HONORS

Intel Employee Recognition by Manager and Product Owner in September 2017 & January 2018.

Academic Merit Scholarship recipient since August 2014.

Collin College President's List in Jan 2014.

Collin College Dean's List in May 2013.

Phi Theta Kappa honor society since August 2012.

LANGUAGES

Fluent in **English** and **Persian**.

Kitty Cards — *Personal Project* (React, Redux)

- Improve maintainability and state management by using redux packages.

Granular Synthesizer — *Academic Project* (C/C++)

- Optimized drawing speed on LCD up to 4x through caching pixel attributes.
- Increased sound-sampling size from 68KB to 120KB by compressing inputs.

Augmented Audio — *Academic Team Project* (Python, Unity)

- Won 2nd place among 13 teams using just over half of the budget ($599).
- Designed a device to assist the visually impaired with navigation by utilizing brain's capability to hear localized audio.
- Implemented object detection using TensorFlow API's and the SSD model.

Portfolio — *Personal Project* (HTML, CSS, JS)

- Reduced content load time by 68% (8.24s) through async loading of scripts, as well as converting images from PNG to SVG.

CppStream — *Personal Project* (C++)

- Designed a set of API's to optimize concurrent programming in C++17 by utilizing the standard threading and algorithms library.

Pastiche — *Academic Team Project* (Android, MySQL)

- Won 1st place among 20 groups for best app design and scalable backend.
- Spun a docker container on an EC2 instance to easily scale and maintain.

Freechat — *Academic Team Project* (Android, Java)

- Developed a chatroom app and the back-end servers as a distributed system by incorporating Ricart and Agrawala's algorithm.