

# Arash Nabili

23214 Orange Ave Apt 9 • Lake Forest, CA 92630 • (714) 916-7043 • [arash.nabili@gmail.com](mailto:arash.nabili@gmail.com)

## Skills

- Programming skills: Java, C/C++, Android, Python, Scala, JavaScript (React and NodeJS)
- Experience with Linux shell scripting, build systems (Make, Maven, sbt), and Jenkins CI
- Fluent in English and Farsi

## Education

*University of California, Irvine*

Doctor of Philosophy, Computer Science

Teaching Assistant, 3 quarters

Graduate Student Researcher

Irvine, California

Graduation: June 2021

Fall 2016 – Current

September 2017 – December 2017

*University of California, Irvine*

Bachelor of Science, Computer Science and Engineering

GPA: 3.896, Dean's Honors List for 8 quarters

Irvine, California

Graduation: June 2016

## Projects

### *Senior Design Project*

- Designed, developed, and tested server and mobile applications for an autonomous drone system
- Collaborated with team members to integrate server and mobile app with other components

### *Embedded Systems Final Project*

- Designed a tool for reading vehicle diagnostics information, using an ATmega32 microcontroller
- Implemented the OBD-II protocol through embedded software, leveraging the microcontroller's UART interface to communicate with a vehicle's on-board diagnostic system.

### *AI Class Project*

- Designed the AI for the game Connect-K in Java
- Employed the minimax algorithm in conjunction with a heuristic evaluation function to determine the optimal move for any board state, as well as Alpha-Beta pruning to increase the performance of the AI.
- The data structure used was a game tree, where a node contained a board state, and each node's children were the possible moves from that node. A Comparator was used to order the nodes.

### *Digital Design Final Project*

- Implemented a 32-bit processor in VHDL. The design consisted of a controller, a register file, a 32-bit ALU, ROM, sign extender, multiplexers, and a program counter.

## Work Experience

### *Software Development Engineering Intern*

Amazon.com, Inc.

June 2017 – September 2017

- Designed and implemented a web-based tool to manage automatic app entitlements for the ADG (Amazon Digital Goods) team

### *Lead Android Developer*

Radio Javan, Inc.

October 2016 – January 2018

- Overhauled the Radio Javan Android app to use a standard app architecture as well as a standards-compliant UI design.

### *Software Engineer*

April 2015 – August 2016

Levyx, Inc.

Irvine, California

- Educated other interns on Apache Spark's functionality and internals
- Developed a suite of tests to evaluate Apache Spark's performance
- Maintained and contributed to company's software products