Akshay Chacko

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EDUCATION

University of Michigan, Ann Arbor   *September 2018 – May 2021*

Bachelor of Science - Computer Science & Engineering

PROFESSIONAL EXPERIENCE

Stealth Mode Startup   **San Jose, CA**

Embedded Software Engineering Intern (C, HTML, Keil uVision)   *July 2019 – August 2019*

Silicon Valley based IoT startup that develops smart and adaptive exercise equipment.
- Enabled communication between exercise equipment and mobile devices in order to monitor and adapt to the user's exercise patterns. Redesigned and ported code to newest version of Nordic Semiconductor Bluetooth LE module (nRF52) in Embedded C.
- Configured and utilized debugging environment for NXP LPC 2138 microcontroller series via JTAG to evaluate and test code on smart elliptical machines.
- Designed, hosted, and launched company website from the ground up using HTML and HostMonster.

SpeedInfo LLC.   **San Jose, CA**

Software Engineering Intern (C++, C, PHP, VisualDSP++)   *July 2017 – September 2017*

Startup that develops and deploys intelligent autonomous traffic sensors.
- Developed a program with GUI to automate testing of sensors and to log results. Utilized C++ to send test commands from a management console and process responses from the sensor. Developed diagnostic tests for the sensor processor in Embedded C.
- Improved data storage system by updating server-side PHP code to send a timestamp and sensor embedded C code to append it to all data saved on the network.
- Manually performed field tests of sensors and compiled results. Analyzed the data for quality assurance purposes.
- Researched solutions for emissivity compensation in infrared traffic sensors.

Tech to School Inc.   **San Jose, CA**

Warehouse Technician   *June 2016 – August 2016*

Apple repair and refurbishment company that serves K-12 schools.
- Received and inspected large shipments of iMacs, iPads, Macbooks, etc. in collaboration with the Repair and Auditing departments.
- Refurbished and repackaged products and accessories by the hundreds, and prepared them for shipment to schools nationwide.
- Invoiced and maintained inventory of all products shipped and received.

Context 360 Inc.   **Sunnyvale, CA**

Software Engineering Intern (Java)   *June 2015 – September 2015*

Mobile startup that develops software to analyze, interpret, and predict user behavior.
- Developed wireframe mockups to model user interfaces for future products.
- Helped to create a mobile plugin to extend Context 360's software compatibility to Unity Engine, a widely used development interface.
- Set up a testing platform utilizing the Eclipse IDE to help evaluate competing products.

COURSEWORK

Computer Science & Engineering:
- Computer Programming I & II (Java)
- Web Programming (HTML, CSS, Javascript, PHP, AJAX)
- Game Design for Problem Solving with Python (Python)
- Introduction to Data Management (SQLite, SQL Server, Microsoft Azure, AsterixDB, Spark)
- Technical Foundations of Informatics (R, R-Markdown)
- Data Structures and Algorithms (C++)
- Introduction to Computer Organization (ARM)

OTHER

Additional Work Experience: C, Visual Studio, Keil uVision, VisualDSP++, Embedded Programming

Languages: Spanish fluency
- Awarded 2016 Seal of Biliteracy by the Santa Clara County Office of Education