Jacob Pettingill

jacobp1794@gmail.com ● 916.582.2812 ● www.linkedin.com/in/pjacobr ● github.com/pjacobr

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EDUCATION

Bachelor of Science, Computer Engineering   **Apr 2019**
Brigham Young University   *Provo, Utah*

- GPA: 3.54 / 4.00
- 3 classes using object-oriented C++; Java and Android Studio; Machine learning and statistical analysis;
- Built Space Invaders in C, an embedded operating system, a family tree android application with backend Java server and API with sequel database, lasertag, an NBA playoff prediction model using various machine learning models, and

EXPERIENCE

IOT Research Assistant   **Jan 2019 – Jul 2019**
Brigham Young University   *Provo, UT*

- Led 2 other students in building an IOT Air Quality Measurement System. Integrated wireless communication, local storage, air quality measurement, temperature and humidity, etc.
- Led 3 other students in development of power measurement system, LoRa wireless protocol, and board design.

Firmware Engineering Intern   **Apr 2018 - Apr 2019**
Intel Corporation   *Folsom, CA*

- Led bring up firmware for new solid state drive. Provided necessary code in 3 days for Hardware Engineers.
- Wrote firmware (C), test code (python), and analysis (VBA) of 10 SSD's heat characteristics including visualized heat map of drive across time.

Software Engineering Intern   **Nov 2017 – Apr 2018**
Vivint SmartHome   *Provo, UT*

- Helped company show proof of concept for a potential product in 2 weeks by building an MVP using Raspberry Pi, Microcontroller flashing, python, machine learning and Linux.
- Performed key analysis on logistics data to save over $500,000 yearly. Used Google API's to generate important meta data.

FPGA Research Assistant   **Apr 2016 – Oct 2016**
Brigham Young University   *Provo, UT*

- Implemented real-time 4K video filtering system on FPGA.
- Python interface for adjusting filters.

SERVICE

Co-Founder/Computer Engineering Rep, Engineers Mean Business Club   **Apr 2016 – Apr 2019**
Brigham Young University   *Provo, Utah*

- Founded club and helped to recruit over 100 members in first 4 months. Currently 40 person attendance average for club events 3 years later.
- Organized and planned events (including recruiting/networking events with representatives from ***Goldman Sachs***, ***McKinsey&Co***, ***NuSkin, Orbital ATK***, etc.).
- Developed club website including content development, organization, and UI/UX. embc.byu.edu.

Volunteer Missionary   **Jun 2013 – Jun 2015**
The Church of Jesus Christ of Latter-day Saints   *Lyon, France*

- Organized and taught 20+ workshops on leadership, relationships, and goal setting

ACHIEVEMENTS AND SKILLS

- High language proficiency in French (reading, writing, speaking).
- 3rd place in BYU Computer Science Hackathon (2017)