Jared Hanson

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Education

Massachusetts Institute of Technology
Class of 2018
Bachelor of Science: Computer Science
Cambridge, MA, USA
4.2/5.0 GPA

Benicia High School
Class of 2014
High School Diploma
Benicia, CA, USA
4.4/4.0 GPA

Work Experience

Apple | Sunnyvale, CA   **October 2018 to present**
Software Engineer - Backend
- Worked cross functionally with client, business and content teams to develop features for the Apple Store App
- Developed Apple's automated retail and customer service platform for messaging apps iMessage and WeChat
- Gained enterprise experience in microservice architectures, software development cycles, effective logging etc.
- Worked with technologies such as Spring.io, Kafka, Kubernetes, Docker, CassandraSQL and many more

Apple | Sunnyvale, CA   **May 2017 to August 2017**
Software Engineering Intern
- Created automated conversational buy flow for customers to purchase products within iMessage and WeChat
- Built in Java using Spring MVC with CassandraSQL and includes platform specific payment integrations

Adobe Systems | Lehi, UT   **May 2016 to August 2016**
Linux Systems Engineer Intern
- Contributed 20,000 lines to the open-sourced project HubbleStack Nova - www.hubblestack.io
- Wrote Hubble CVE scan module that reports software packages on a local machine vulnerable to known CVEs
- Assisted in integration testing prior to the deployment of HubbleStack on over 43K internal Adobe servers
- Developed a web app that creates interactive timelines of unresolved alerts within TechOps' managed services

Leerink Partners LLC | San Francisco, CA   **June 2015 to August 2015**
Convertible Securities Team Intern
- Made excel model analyzing the life cycle (i.e. converted to stock, paid at maturity, etc.) of convertible bonds
- Made excel model showing change of a company stock price after issuing convertible bonds vs. follow on stock
- Used both Bloomberg and python data mining scripts to compile the data needed for these excel models

Projects/Activities

Undergraduate Research (UROP) | MIT Sustainable Design Lab   **August 2017 to June 2017**
- Automated workflows aggregating campus weather and energy data for use in downstream building models
- Created workflow for simulating energy use of all MIT buildings with continuously calibrated building models
- Created interactive dashboard of MIT campus charting simulated vs. measured energy usage per building

LearnIt | gamifying math homework   **March 2017 to June 2017**
- Web application that motivates young students to finish math homework by gamifying their worksheets
- Completing problems slowly reveal a hidden image card that is unlocked after completion of the worksheet

EasyPick | interactive MIT course catalog   **October 2016 to December 2016**
- Won *Best Use of Data* in MIT's 6.170 web programming competition
- Web application that allows MIT students to search and filter courses by classmate reviews
- Uses collaborative filtering to recommend new classes to students based on their previously rated courses

MIT Football   **August 2014 to October 2017**
- Four year starting wide receiver for the Engineers and 2014 Offensive Rookie of the Year

Publications

Nagpal S, Hanson J, Reinhart C. **A framework for using calibrated campus-wide building energy models for continuous planning and greenhouse gas emissions reduction tracking**. Applied Energy. Elsevier Publishing. 2019; 241: 82-97

Nagpal S, Hanson J, Reinhart C. **Auto-Calibrated Urban Building Energy Models as Continuous Planning Tools**. SimAUD Conference. 2018. Delft.

Skills

Python • Java	Flask • Spring MVC	Kubernetes • AWS	Nginx
Html • CSS • Javascript	React • Redux	MySQL • CassandraSQL	Apache Kafka