
EDUCATION

University of California, Santa Cruz - *Computer Science (B.A.), 2016*

OBJECTIVE

To hone my skills and learn from industry leaders in order to find my place as a member of the industry

SKILLS

Concepts Agile methodology, Algorithms, Data Structures, Web Development, APIs, Scripting

Programming Python, Java, Javascript, SQL, HTML/CSS **Languages** English, Mandarin Chinese

Technologies Git, Bash, Ajax, Node.js, NPM, Express.JS, AWS, Elastic Beanstalk, Firebase, Heroku, Websockets, HTTP Protocols, Twitter Bootstrap, MySQL, PostgreSQL, MQTT

EXPERIENCE

Software Engineer - Nextbee Corp.

Winter '19 - Current

As a software engineer at Nextbee, I served as a technical point of contact for enterprise clients. As part of my duties, I:

- Interface with clients to gather requirements and build solutions to fit their needs
- Adopted existing projects to maintain and improve current systems

IT/Software Engineer - Photo USA Corp.

Summer '17 - Winter '19

- Assessed and identified weaknesses in company tech infrastructure and developed software solutions aimed at elevating production visibility and increasing production efficiency
- Interfaced with company clients to tailor integration solutions to their needs
- Utilized Node.js to write an internal print production tracking server
- Interfaced in Mandarin with offshore development team to test and integrate server changes
- Assisted in maintaining Ruby on Rails backend both locally and on our AWS servers
- Researched and prototyped tools and technologies to be integrated into our development stack

Undergraduate Researcher - UCSC Deferrable Load Testbed/Sensor Network Fall '15 - Spring '16

I worked with a team to implement a distributed asynchronous sensor network as part of a microgrid testbed for simulating and testing frequency excursions in electric loads. As part of the project, I:

- Used Python to design and implement an asynchronous central network hub in an SOA architecture
- Designed firmware to control sensors, as well as assisted in implementing 802.15.4 wireless modules
- Utilized the MySQL python API to communicate with UCSC's CenSEPS database
- Implemented an MQTT Protocol broker and clients based off the Eclipse Foundation's Mosquitto Project and Paho MQTT libraries, enabling asynchronous networking with 250,000+ connections
- Presented and demonstrated findings to senior Baskin School of Engineering faculty

PROJECTS

Deal Tracker - ebay-deal-tracker.herokuapp.com

My current personal project tracks Ebay prices and sends email alerts when a good deal is listed

- Near feature complete backend running on a Heroku Dyno with Heroku Postgres for data storage
- Web dashboard with authentication and sessions with Express-session and Redis cache
- Automatically scales Ebay Finding API call rate to maximize daily quota (5000 calls) per user
- Next steps are to add more substantial testing and logging, write an iOS client, and monetize