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## 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** Ruby on Rails, Python, Javascript, SQL **Languages** English, Mandarin Chinese

**Technologies** Git, Node.js, NPM, Express.JS, AWS, Elastic Beanstalk, Lambda, SQS, Firebase, Heroku, Twitter Bootstrap, MySQL, PostgreSQL, MQTT, AngularJS, Redis, Jira

## EXPERIENCE

**Software Engineer -** Accrualify Inc. (Acquired by Fleetcor Technologies) Fall '20 - Current

I was the project lead for our innovative Corporate Card module
- Designed and built systems that contributed to our startup's successful exit
- Developed and owned a system to issue corporate debit cards and process thousands of transactions valued at millions of dollars
- Interfaced with engineering, business development, and customer relations teams to determine requirements and delegate project tasks
- Enabled new revenue streams and monetization channels by integrating with key Accrualify modules

Additionally, I am working on scaling our systems to manage a huge influx in user volume. I recently designed and implemented a distributed audit log archival microservice using Node.js, AWS Lambda, and Amazon SQS currently capable of processing millions of records per day.

**Software Engineer -** Nextbee Corp. Winter '19 - Fall '20

At Nextbee Corp, 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
- 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