Max Jung

jung.moonki94@gmail.com | (661) 607-7560 | Portfolio: mxjung.com | Linkedin | GitHub

WORK EXPERIENCE

LiveStack: Software Engineering Intern *05/2020 – 06/2020*

> Built **Express backend authentication routes and APIs** for new client-side interactions. Wrote and maintained auth middleware and **Jest test** files for unit and integration testing.
> Developed **backend JavaScript cron jobs** for automating Stripe API refunds. Used fake timers to write Jest tests to verify success of automation.
> Expanded existing PostgreSQL DB through **database migrations** and new **SQL queries**.
> Built **responsive UI** in React components through Bootstrap and Sass to alert users of unconfirmed events.

SIEMENS: Systems Engineer Building Automation *03/2019 – 02/2020*

> Designed unique Building Automation (HVAC) systems for projects ranging from **$15K-$300K**. Includes design of automation network architecture, mechanical system layouts, sequence of operations.
> **Acted as lead technical engineer** for sales, project management, and field programmers through duration of project cycle, and validated success of design in meeting customer needs.

PLENTY UNLIMITED: Systems Design Engineering Intern *07/2018 – 11/2018*

> Built Plenty's first Java Anylogic (**self-taught**) simulation models of automated manufacturing systems.
> **Prototyped UI dashboards** for Operations Team, and created/facilitated tests to monitor changes needed to improve user experience and increase farm harvest efficiency.
> Developed object-oriented MATLAB applets to reduce working hours of harvest laborers.

UC BERKELEY ENGINEERING: Graduate Student Instructor *01/2018 – 05/2018*

> **Taught and led discussion** on introductory to advanced MATLAB computer programming concepts (numerical methods, iteration, recursion, object-oriented) to **60+ undergraduate students**.

UC BERKELEY ENGINEERING: Graduate Student Researcher *06/2017 – 05/2018*

> Researched and designed new singleton thermistor sensors for measuring flow rate of tree sap.
> Assembled these prototype sensors and verified the viability of a single thermistor flow rate sensor.

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY ENGINEERING

M.S. Systems Engineering *08/2017 – 05/2018*
B.S. Civil and Environmental Engineering *08/2013 – 05/2017*

SKILLS

Development Languages

> JavaScript, Python, PostgreSQL, HTML, CSS, MATLAB, Java (Anylogic and Android Studio)

Technologies/Frameworks

> React, Node.js, Express.js, Redux, Jest, Flask, SQLAlchemy, JWT, Bcrypt, Git/Github

PROJECTS

Microblog (React/Redux/Express/PostgreSQL):

> Blog site where users can publish posts and leave comments on posts, with all changes stored in Redux.

Jobly (React/Express/PostgreSQL):

> React and Express application where users can search and apply for jobs depending on criteria.

Warbler (Jinja/Flask/PostgreSQL):

> Twitter clone where users can follow other users. Verification done through JWT and Bcrypt.