Max Jung

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WORK EXPERIENCE

LiveStack: Junior Software Engineer   06/2020 – Present
> Developed and maintained backend Express program for automating Stripe API refunds using cron jobs. Used fake timers to write Jest tests to verify success of automation.
> Expanded existing PostgreSQL DB and Express API to handle new client-side interactions.
> Wrote and maintained Jest test files for unit and integration testing, both for React and for Express.

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 engineering resource 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)
> Programs: VS Code, Insomnia, Postico

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

PROJECTS

Microblog (React/Redux/Express/PostgreSQL):
> Blog site I built in React and Express where users can publish posts and leave comments on posts, with all changes stored in Redux and altered in PostgreSQL DB.

Jobly (React/Express/PostgreSQL):
> React website with Express backend I made where users can filter for jobs depending on criteria and apply for jobs.

Warbler (Jinja/Flask/PostgreSQL):
> Twitter clone where users can follow other users. Verification done through JWT and Bcrypt.