

# 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.

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## EDUCATION

### **UNIVERSITY OF CALIFORNIA, BERKELEY ENGINEERING**

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

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## 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

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## 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.