

MELVIN CHENG

Software Engineer | Can't stop [learning], won't stop [learning]

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Full stack software engineer with experience in project management and working in an engineering team. Familiar with object oriented programming including JavaScript and Python, RESTful API interaction and documentation, unit/integration testing, and debugging. Transitioning career with a decade of design and project management experience to pair with software dev skills.

SKILLS

LANGUAGES: JavaScript (ES6+), Python, HTML5, CSS3, SQL, C++, Java

FRAMEWORKS & LIBRARIES: React.js, Node.js, Express.js, jQuery, Bootstrap, Redux, Jest, Flask, SQLAlchemy

DATABASE & INDUSTRY TOOLS: PostgreSQL, Git, GitHub, REST API

HIGHLIGHTED PROJECTS

Pokemon Tamagotchi

- Built an app game where a trainer can feed and evolve their Pokemon.
- Designed a trainer database with a login and password for each trainer's settings utilizing bcrypt encryption and JWTs for security.
- Used an external RESTful API to set up a private PostgreSQL database that is utilized by custom API.
- Created server using NodeJS and Express while the client uses React with React Router Dom and bootstrap.
- Performed unit testing to verify server functionality and client classes.
- Deployed on Heroku.
- Repo: [mcheng7687/Pokemon-Tamagotchi](https://github.com/mcheng7687/Pokemon-Tamagotchi)

Travel Tracker

- Built an app that uses 3 different external RESTful API's to track user-specified cities' weather and foreign exchange rates.
 - Constructed database with PostgreSQL and M2M relationships.
 - Utilized HTML/CSS, Bootstrap, JavaScript, Python, Flask, and SQLAlchemy.
 - Performed unit and integration testing to verify code functionality.
 - Deployed on Heroku.
 - Repo: [mcheng7687/Traveler-Tracker](https://github.com/mcheng7687/Traveler-Tracker)
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EXPERIENCE

Software Engineering Fellow | Springboard

2021 - present

- Completed 800-hour course that covered key aspects of front-end web development, back-end web development, databases, and data structures and algorithms. Included 1:1 industry expert mentor oversight, and completion of in-depth portfolio projects.
- Honed skills in Web Development, JavaScript, DOM Manipulation, Event Driven Programming, Git/Terminal/Github, Modern JavaScript and Testing, AJAX, jQuery, ReactJS, Redux, SQL, PostgreSQL, Flask, Node, Express, Data Structures and Algorithms.

Senior HVAC Design Engineer | United Mechanical Inc.- Alameda, CA

2021 - present

- Lead designs with minimal supervision on multi-million dollar projects with schedules ranging from 1 to 6 months.
- Coordinate with multiple teams of engineers across client companies.
- Build and maintain comprehensive process documentation.

HVAC Design Engineer | ACCO Engineered Systems- San Leandro, CA

2015 - 2021

- Promoted from BIM Coordinator to HVAC Design Engineer.
- Applied engineering principles to create designs based on client requirements, ensuring project designs are within client's budget.
- Coordinated project work internally and externally with other engineers to ensure on-time completion of projects.

Assistant Project Manager | Dasny Mechanical- New York, NY

2010 - 2015

- Managed project design, procured equipment from vendors, and managed union workers' schedules and supplies.
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EDUCATION

Software Engineering Certification, Springboard

2022

MS, Mechanical Engineering, Stony Brook University

2010

BE, Mechanical Engineering, Stony Brook University

2009