

MICHAEL IWANEK

+1(916) 539-0630 ◇ Sacramento, CA

iwanekmike@gmail.com ◇ [linkedin.com/in/michael-iwanek/](https://www.linkedin.com/in/michael-iwanek/) ◇ github.com/Mike11199

EDUCATION

B.S - Computer Science, Oregon State University 2022 - Mar 2024

Major GPA: 4.0

Coursework: Algorithms, Data Structures, Operating Systems, Discrete Math, CS 161/162, x86 Assembly, Web Dev, Databases, Software Engineering I

B.S - Business Administration (Accountancy), Sacramento State University 2017 - 2018

Major GPA: 3.94; Beta Alpha Psi VP of Info Systems Spring 2018; Graduated

SKILLS

Languages	C, C++, C#, Python, JavaScript, Java, VBA, Assembly x86, SQL, MongoDB, Flask, Django
Software	Git, Docker, Jest, Vim, Linux, Axios, Postman, VS Code, PyCharm, SQL Server Mgmt Studio
Frameworks/Misc.	React.js, Express.js, Node.js, Redux, Socket.io

PROJECTS

Ski and Rock Climbing E-Commerce Store (MERN) - [GitHub](#) - [Live](#)

- Developed a full-stack website (REI/Amazon clone) with product search, filtering, OAuth2.0, shopping carts, and order submission. An Admin dashboard allows for user/inventory management, and real-time statistics/chats.
- Implemented the Paypal API and sandbox accounts to simulate live payments of orders by the website, sending order details via JSON and recording payment status in the MongoDB database.
- Deployed Socket.IO to allow for bi-directional client and server communication, to enable real-time messaging between a logged in admin and user. Used Redux for global state management and user chats.
- Created Jest test cases to evaluate React components and Express.js/Node.js server functionality.

applyYourSelf - Job Application Tracker (MERN) - [GitHub](#) - [Live](#)

- Mobile responsive job application tracker with user authentication, full CRUD functionality, and dynamic statistical data via Bar & Sankey charts, showing which jobs led to subsequent interviews and monthly application counts.
- Features are implemented by several REST APIs, styled components, protected routes (JSON Web Token/ Axios Interceptors). Controllers/route handlers implement error handling, user authentication, and not-found middleware.

Hash Map Implementation (Python)- [GitHub](#)

- HashMap data structure supporting get, put, and other methods built on top of a dynamic array. Table collisions are handled via Open Addressing (quadratic probing) in one class, Separate Chaining (linked lists) in another.

WORK EXPERIENCE

Senior Accounting Officer - Recon/Data Specialist

CalSTRS - California State Teachers' Retirement System; CalPERS

07 2020 - Present

Sacramento, CA

- Developed macros programmed in VBA for the entire accounting branch, automating data retrieval from SAP and manual Excel workpaper preparation.
- Prepared complex accounting reconciliations, interface testing, journal entries, and accruals for a pension fund with over 300 billion in assets, in a senior analyst role using SAP and Excel.
- Participate in the conversion of a legacy mainframe accounting system involving 2 billion records and 20 years of data. Developed advanced SQL queries to aggregate/summarize records, join tables, and analyze data sets for conversion errors.