

MICHAEL IWANEK

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EDUCATION

B.S - Computer Science, Oregon State University - School of Electrical Engineering and Computer Science 2022 - Mar 2024
Major GPA: 4.0;

-Completed Coursework: Algorithms, Data Structures, Operating Systems, Discrete Math, CS 161/162, x86 Assembly, Web Dev, Databases, Software Eng I – In Progress: Mobile Dev/ Software Eng II
-CodePath Advanced Technical Interview Prep Summer 2023; Honor Roll 2022-2023

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 TypeScript, React.js, Express, Node, MongoDB, C/C++/C#, Python, JavaScript, Java, GraphQL, SQL, PostgreSQL
Software Jira, Bitbucket, Axios, Postman, VS Code, PyCharm, Eclipse, SQL Server Mgmt Studio, Git/GitHub, Excel

WORK EXPERIENCE

Full Stack Software Engineer Intern 06 2023 - Present
PNNL - Pacific Northwest National Laboratory Remote - Richland, WA

- Develop reusable React.js/TypeScript components for an enterprise level application, under direct supervision of senior software engineers. Leverage Tailwind CSS framework to create fully responsive site elements with minimal code per Figma mock-ups, such as modals, navigation menus, and grids. Implement Typescript features such as interfaces and generics to add static typing/ IntelliSense to JavaScript, and detect errors in compilation before code is deployed to production.
- Program features for the .NET back end of the application in C#, while concurrently developing the front end. Added case insensitive filtering for requests through custom class operation handlers for the Hot Chocolate GraphQL server. Added new IQueryable logic to implement offset pagination for queries that request image data from AWS buckets. Modified API route logic to send additional data to the PostgreSQL database (EF Core) and Python RabbitMQ server/ machine learning model.
- Utilize the Apollo client and useQuery API to develop new components that submit/retrieve data from the GraphQL server, via queries and mutations. Use React.js hooks such as useState, useMemo, and useEffect to handle state for the application, refresh component data, and prevent expensive function calls on re-rendering via caching.
- Report to senior software engineers and project managers in an Agile environment, participating in daily stand-ups and meetings. Utilize Atlassian Jira features such as boards to plan feature rollouts per user stories and epics, referring to documentation in Confluence as needed. Submitted pull requests in BitBucket and addressed necessary changes/ merge conflicts needed in order to pull changes to development/production branches.

Senior Accounting Officer - Recon/Data Specialist 07 2020 - 06 2023
State of California (CalSTRS - California State Teachers' Retirement System; CalPERS) Sacramento, CA

- Developed complex macros programmed in VBA to automate 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. Managed databases and developed advanced SQL queries to aggregate/summarize records, join tables, and analyze data sets for conversion errors.

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, PayPal API, and order submission. An Admin dashboard allows for user/inventory management, and real-time statistics/chats.
- 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.

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 various server middleware.