MICHAEL IWANEK

+1(916) 539-0630 ⋄ Sacramento, CA ⋄ iwanekmike@gmail.com

https://www.linkedin.com/in/michael-iwanek/ ⋄ https://github.com/Mike11199 ⋄ https://michael-iwanek-portfolio.com/

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, Mobile Dev, Software Eng II, Computer Networks, Computer Graphics – In Progress: Capstone
   -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 C#, TypeScript, C++, C, React.js, Express, Node, MongoDB, Python, JavaScript, Java, GraphQL, SQL, PostgreSQL
Software   RabbitMQ, Boto3, AWS, ECS, Docker, Jira, Bitbucket, Axios, Postman, AWS CDK, SQL Server Mgmt Studio, Git

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 responsive UI elements per Figma mock-ups, such as modals, navigation menus, forms, and grids. Implement TypeScript features such as interfaces and generics to add static typing/type safety to JavaScript (e.g - via GraphQL codegen), and detect errors in compilation before code is deployed to production. Utilize the Apollo client to interact with data from the GraphQL server, via queries and mutations.

- Program features for the .NET back end of the application in C#, while concurrently developing the front end and other services in languages such as Python. Create new GraphQL resolvers to query data against the PostgreSQL database (AWS RDS) with Entity Framework Core (IQueryable/LINQ). Add new C# interfaces/classes to implement timed background services (IHostedService), case insensitive filtering, pagination, kickoff RabbitMQ message broker services to produce/consume data in C# or Pika, and interact with AWS resources such as S3 buckets.

- Create Python services with AWS CDK to programmatically deploy AWS resources to the cloud, such as AWS Lambdas (Boto3), CloudFormation stacks, SNS Subscriptions/Topics, and endpoints.

- Use computer vision machine learning libraries such as Detectron2 to train PyTorch models on labeled image COCO datasets/ Juptyer Notebooks. Deployed models to AWS SageMaker HTTP endpoints to make inferences from submitted images.

- Report to senior software engineers and project managers in an Agile environment, participating in daily stand-ups and meetings/sprints. Utilize Atlassian Jira features such as boards to plan feature rollouts per user stories and epics. Use BitBucket/Git for version control to coordinate projects with other developers. Submit pull requests and address review comments, merge conflicts, and other changes as necessary for submitted work.

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. Performed various 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 (TypeScript/MongoDB/ AWS ECS) - 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 with Socket.io.

- Deployed on an AWS Elastic Container Service (ECS) cluster via serverless AWS Fargate. Implemented a CI/CD pipeline via a GitHub Actions .yml file which re-builds and deploys new docker images to ECR/ECS for the front/back end. This runs whenever new commits are pushed to the docker branch (main runs on Heroku). Added EC2 load balancer and custom domain.

Portfolio Website - Additional Projects (React.js) GitHub - Live