

Michael Li

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EDUCATION

Purdue University

West Lafayette, IN

Triple Major: *B.S in Computer Science, Marketing, and General Management*

May 2025

- **Concentrations:** *Data Analytics, Software Engineering*
- **Relevant Coursework:** Programming in C, Data Structures and Algorithms, Discrete Math/Probability, Computer Architecture, Software Engineering, Systems Programming, Information Systems

PROFESSIONAL EXPERIENCE

RadianHub LLC

Fishers, IN

Software Engineer Intern

May 2024 – Present

- Developed a configurable PIRL Data Extractor package for clients, enabling the generation of CSV reports based on various versions of PIRL templates, increasing data processing efficiency by 40%
- Acquired consulting experience by translating client business requirements into actionable deliverables
- Created Salesforce web applications through design, development, debugging, QA, and implementation processes using Apex, Lightning Web Components, JS/CSS/HTML, and SOQL

Purdue VIP Program – Machine Learning in Motion

West Lafayette, IN

Research Assistant – Algorithm Engineer

January 2024 – August 2024

- Trained and integrated object-detection, depth-estimation, ML models, and distance-tracking between dancers using YOLO, Python, and OpenCV to create an interface for dance choreography and performance
- Researched and tested different depth-estimation and machine learning algorithms such as monocular depth-tracking, stereovision, and pose-estimation to find the best fitted approach for the project
- Developed fronted visualizations of pose estimation data utilizing React, three.js, and p5.js

UnitedHealth Group - OptumRx

Boston, MA

Home Delivery Team, Data Analysis Intern

June 2023 – August 2023

- Analyzed script, adherence, and Medicare star KPIs, improving clarity with intuitive Excel dashboards
- Eliminated 6 HDP project roadblocks by developing a project master tracker, improving project efficiency by 24%

PROJECTS

JARVIS: NASA SUITS – *Node.js, WebSockets, HTML/CSS, C#, Unity*

- Developed an AR interface for astronauts on Mars to enhance navigation and task management
- Implemented a geopin and breadcrumb system to mark and store points of interest on the Martian surface with precise coordinates from the telemetry stream and custom input
- Designed and integrated task management utilizing computer vision and data parsing from the telemetry stream
- Tested our work at NASA facilities and presented to flight directors, astronaut candidates, and other staff

BetterBook Chrome Extension – *HTML/CSS, JavaScript, React, AWS*

- Productivity Chrome extension to help with homework assignments
- Used AWS API Gateway, Lambda and DynamoDB to store questions and answers
- Reached 10,000 installations within 2 months of release

Recipe Remix – *HTML/CSS, JavaScript, MongoDB, Express, React, Node, GraphQL*

- Web application that retrieves matched recipes based on user-inputted ingredients, along with community features
- Created REST API endpoints for handling user interactions such as adding, deleting, and retrieving ingredients
- Constructed and maintained a dynamic database schema in MongoDB for storing user profiles, community interactions, and recipe data, ensuring data integrity and security
- Orchestrated the integration of the Suggestic API using GraphQL to provide dynamic querying for recipes and ingredients, enhancing the app's core functionality

TECHNICAL SKILLS

Programming Languages: C, C++, C#, Java, Python, JavaScript, TypeScript, Swift, SQL

Frameworks/Technologies: HTML/CSS, React, Express, Node.js, Spring Boot, Spring Framework, GraphQL, MongoDB, PostgreSQL, Firebase, AWS, Docker, YOLOv8, Unity, Git, Agile, Apex, LWC, R Studio, Vapor

Certifications: Salesforce Platform Developer I, Salesforce Associate