

# KOURTNEY MIRANDA

Software Engineer | Backend / Full Stack Development | AI & Cloud Systems

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## Summary

Software Engineer with hands-on experience developing and deploying scalable applications across frontend, backend, and cloud environments. Skilled in React, Node.js, Python, and PostgreSQL, with a growing interest in machine learning, distributed systems, and product innovation. Proven ability to build user-centric solutions, collaborate across disciplines, and adapt quickly to new technologies. Passionate about impactful software that connects people and enhances everyday experiences. Seeking an entry level role and grow into a long-term contributor.

## Core Competencies & Skills

Python • JavaScript ES6+ • TypeScript • Swift • Java • SQL • HTML5 • CSS3 • Bash • React • Node.js • Express.js • Flask • Tailwind CSS • RESTful APIs • PostgreSQL • NoSQL • SQLite • AWS EC2 • AWS S3 • AWS IAM • Docker • GitHub Actions • Terraform • CI/CD Pipelines • OpenAI API • TensorFlow • LLM Integration • Data Modeling • Git • GitHub • Jira • Confluence • Slack • Figma • Object-Oriented Design • Data Structures • Algorithms • API Integration • System Scalability • Code Optimization

## Projects

### E~Commerce Automation: AI Chatbot Suite

Bellevue, WA

02/2025

[Live Demo](#) | React, Tailwind CSS, OpenAI API, Prompt Engineering. Designed and deployed a suite of 4 chatbots simulating e-commerce automation using LLM logic:

- Buyer Bot – Handles order FAQs, returns, and shipment queries
- Seller Bot – Automates product listing, fulfillment, and policy guidance
- Review Bot – Generates GPT-based reviews and summary pros/cons
- Prompt Playground – Allows prompt testing in various tones and use cases
- Includes prompt documentation, API fallback logic, and responsive UI

### BIAS Lab: AI-Powered Bias Detection Tool

Bellevue, WA

08/2025

[Live Demo](#) | React, Tailwind CSS, OpenAI API, Python (Flask), PostgreSQL. A full-stack app that analyzes news articles in real-time to detect potential bias and framing choices in journalism:

- Built interactive web app for identifying and analyzing bias in AI-generated content
- Integrated custom prompts with OpenAI API to classify, flag, and recommend bias mitigation strategies
- Developed backend services in Flask with PostgreSQL for data logging and analytics
- Designed responsive UI with real-time bias scoring and feedback

### WanderLyst : Trip Planner App

Seattle, WA

06/2025

[Live Demo](#) | React, Express, PostgreSQL, Node.js, JWT Auth, CSS Modules. Collaborative full-stack travel planning tool for shared trip boards, task assignments, and event organization:

- Custom PostgreSQL schema for trips, users, tasks, events, and comments
- Backend built with RESTful routes and user-based access control
- Frontend includes dashboard views, task lists, voting logic, and event management
- Includes role-based access for trip members, modular React components, and secure endpoints

### Book Buddy : Digital Book Reservation App

Seattle, WA

04/2025

[Live Demo](#) | React, React Router, Express.js, Node.js, PostgreSQL, Vite, JWT Auth. A full-stack digital book reservation app with authentication and real-time catalog updates:

- User registration/login, protected account view, secure book reservation system
- Backend includes RESTful API, PostgreSQL database, Express routes, and JWT-based user auth
- Frontend includes React-based routing, dark mode UI, and dynamic book detail rendering

## Experience

### Catalyte

Bellevue, WA

#### Software Engineer Intern/Apprentice

08/2025 - Present

- Developed and deployed RESTful APIs using Python (Flask) and PostgreSQL, supporting real-time data retrieval for internal tools, which reduced response latency by 28%.
- Implemented CI/CD pipelines in GitHub Actions, automating testing and deployment workflows, cutting manual deployment effort by 40%.
- Built containerized microservices with Docker and deployed them to AWS EC2 environments, improving scalability and uptime to 99.9%.
- Collaborated with senior engineers to implement Terraform infrastructure as code (IaC) modules for environment provisioning, reducing setup time from 3 hours to 30 minutes.
- Developed and tested UI components in React and TypeScript, improving frontend load time by 22% through optimized rendering and modular design.
- Authored technical documentation, runbooks, and spike reports to support cross-team knowledge sharing and deployment consistency.

### Amazon

Bellevue, WA

#### Business Optimization Manager - Vendor Flex Operations

02/2022 - 11/2024

- Directed multi-workstream operational programs across 25+ fulfillment nodes, managing timelines, weekly business reviews, stakeholder communication, and strategic alignment.
- Improved forecast accuracy by 20% by leading cross-functional initiatives across supply chain, procurement, and vendor partners to standardize inputs and streamline order workflows.
- Reduced network inventory gaps by 15% through structured root-cause analyses, corrective action planning, and process redesign that improved on-shelf accuracy.
- Project-managed the rollout of global automation tools (AI-driven and Python/SQL-based), reducing manual workload by 40% and saving 15+ hours per week across operational teams.
- Guided stakeholders through change management by creating SOPs, onboarding materials, dashboards, and reporting frameworks that improved adoption and clarity.
- Led executive-level ROB planning, including agenda creation, meeting documentation, KPI reporting, and alignment on action items across leadership.
- Identified emerging operational risks and implemented mitigation strategies that lowered transportation costs by 12% and improved fulfillment timeliness by 18%.

### County of San Diego

San Diego, CA

#### Program Manager - Chief Technology Office

01/2020 - 11/2021

- Managed cross-departmental programs involving analytics modernization, vendor management, budget tracking, and reporting standardization.
- Directed the integration of 6 independent platforms into a unified analytics system, enabling consistent KPI visibility across operations and leadership.
- Reduced reporting cycles by 40% by automating key workflows and implementing standardized dashboards, improving review effectiveness for stakeholders.
- Improved data quality by 25% through structured QA reviews, stakeholder interviews, and system enhancements.
- Coordinated events, communication plans, and program updates for leadership and 150+ participants across public and internal programs.
- Managed procurement workflows, vendor onboarding, and contract compliance to ensure operational continuity and financial accuracy.

## Education

### University of Michigan: Full Stack Software Engineering Immersive

Seattle, WA

#### Graduate in Software Engineering

11/2024 - 11/2025

### University of California San Diego

San Diego, CA

#### BS in Computer Science

03/2016 - 06/2020

## Find me online



LinkedIn

<http://www.linkedin.com/in/kourtneymiranda>



GitHub

<https://github.com/mirakour>



Kourtney Miranda Portfolio

<https://kourtneymiranda.com/>