

KOURTNEY MIRANDA

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

mirandakourt@gmail.com • <http://www.linkedin.com/in/kourtnymiranda> • Seattle / Bellevue, WA

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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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 Graduate in Software Engineering	Seattle, WA
	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/
---	---	---