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

Experience

Catalyte
Bellevue, WA

Software Engineer 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
02/2022 - 11/2024

- Designed and deployed React + Python + SQL automation tools, reducing handling time for seller support cases by 35%.
- Built LLM-powered chat workflows for global seller support, cutting manual ticket volume by 25% and improving resolution rates by 20%.
- Developed SQL-powered Tableau dashboards integrating multi-system datasets, improving decision-making visibility by 35%.
- Automated QA processes with Python scripts, reducing manual validation workload by 40%.
- Decreased ticket volume by 30% by leading prompt quality testing, localization workflows, and automated support documentation updates for 8 global marketplaces.
- Led cross-functional efforts to deliver a global support automation suite projected to save $1.2M+ annually, while increasing seller satisfaction scores.

County of San Diego
San Diego, CA

Program Manager - Analytics
01/2020 - 01/2021

- Designed and implemented Tableau dashboards and SQL-based pipelines to reduce manual reporting by 70%.
- Built predictive behavior models for public service teams, improving customer engagement and reducing manual ticket handling.
- Conducted qualitative and quantitative data quality reviews, identifying issues and improving integrity by 25%.
- Supported multi-stakeholder business reviews with dynamic reporting, ensuring accurate decision-making.
- Integrated 6 platforms into a unified analytics system, enabling team-wide visibility across customer engagement KPIs.
- Developed automated financial workflows in SQL/VBA, cutting month-end processing from 6 days to 1.5 days.
- Optimized legacy queries and migrated them to a scalable architecture, improving processing time by 92%.
- Automated core government data systems to streamline internal service reporting, cutting cycle times by 40%.

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

Education

University of Michigan: Full Stack Software Engineering Immersive

Seattle, WA
07/2025

Graduate in Software Engineering

University of California San Diego

San Diego, CA
06/2020

BS in Industrial Engineering

Find me online

🌐 Linkedin
http://www.linkedin.com/in/kourtneymiranda

🌐 GitHub
https://github.com/mirakour

🌐 Kourtney Miranda Portfolio
https://kourtneymiranda.com/