

# SHADMAN SHAHZAHAN

Vancouver, WA

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## Experience

### Attention.ad

June 2025 – August 2025

*Software Engineering Intern*

- Built and integrated RESTful APIs using Node.js, Express, and MongoDB for a creator-focused platform, supporting dashboards, engagement tracking, and core backend services.
- Designed MongoDB schemas and data workflows for content, views, trades, earnings, and engagement events, maintaining data consistency during concurrent updates.
- Automated frontend and backend deployments using Render, Netlify, Git, build commands, and environment-based configurations, replacing a manual release process with a repeatable CI/CD workflow.
- Improved platform performance and reliability by troubleshooting asynchronous workflows and optimizing MongoDB queries to reduce latency and unnecessary database operations.

## Projects

### Echofy – Founder & Full-Stack Engineer

June 2026 – Present

*Next.js, Node.js/Express, TypeScript, Gemini API, Slack API, GitHub API, PostgreSQL (Supabase), Cloud Run, Stripe*

- Ran discovery interviews with 20+ founders and operators, translating workflow challenges into product requirements.
- Architected a multi-platform AI automation pipeline (Slack and GitHub) using the Gemini API to detect repeated questions and draft sourced knowledge-base checklists, deployed on Google Cloud Run with automated CI/CD.
- Designed a trust-gated retrieval layer so the system only serves knowledge a human has explicitly approved, addressing reliability and compliance concerns for engineering teams.
- Launched Echofy as a live product with Stripe subscription billing and onboarded its first paying customer.
- Submitted Echofy to Google's Build with Gemini XPRIIZE hackathon with a working product and business model.

### openpilot (comma.ai) – Merged Open-Source Contribution

June 2026 – July 2026

*Python, GitHub Actions, MetaDrive Simulator, CI/CD, Linux*

- Merged a pull request into comma.ai's openpilot platform, restoring an end-to-end MetaDrive simulation test in GitHub Actions CI after it had been disabled.
- Diagnosed a Linux-based segmentation fault in the model-execution daemon, identifying resource-constrained startup as the root cause of intermittent CI failures.
- Improved automated test reliability to approximately 90% on 4-core CI runners by mitigating CPU and memory contention and documenting the solution for maintainers.

### TripSplit – Cloud-Connected Expense Platform

September 2025 – June 2026

*Node.js, Express, PostgreSQL, Prisma, Firebase Auth, AWS RDS, Expo React Native*

- Architected a cloud-backed Node.js and Express backend supporting shared balances, settlements, and concurrent transaction processing for a multi-user mobile platform.
- Designed normalized PostgreSQL schemas using Prisma ORM and enforced referential integrity across users, trips, expenses, payments, and transaction records.
- Implemented Firebase Authentication, JWT validation, and database-level transaction locking to maintain secure access and accurate balance calculations during simultaneous updates.

### AoMatch – AI-Assisted Document Processing Platform

April 2026

*React, FastAPI, Python, MongoDB, PDF Processing*

- Built a FastAPI and Python document-processing system that automated grant and compliance document analysis, reducing manual review time by approximately 60% per cycle.
- Developed a React interface for validating and exporting extracted information, reducing manual data entry by 85%.
- Implemented field-level provenance tracking that linked extracted values to their original source sentences, improving traceability and review accuracy.

## Education

### Seattle Pacific University

Graduated June 2026

*Bachelor of Arts in Computer Science; Minor in Data Analytics*

*Seattle, WA*

## Technical Skills

**Languages:** Python, JavaScript, TypeScript, SQL, Java, C++, Bash

**Cloud & DevOps:** AWS RDS, Firebase, Linux, GitHub Actions, CI/CD, Git, Render, Netlify

**Backend & APIs:** Node.js, Express, REST APIs, FastAPI, PostgreSQL, MongoDB, Prisma

**AI & Automation:** Google Gemini API, OpenAI API, AI Workflow Automation, Process Automation

**Frontend:** React, Next.js, React Native, Expo, HTML/CSS

**Engineering Practices:** Troubleshooting, System Debugging, Automated Testing, System Validation, Code Review, Agile/Scrum, Cross-Functional Collaboration