Alakh Chandarana

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EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Software Engineering - 87% Major Average — *Sept. 2022 – Apr. 2027*
- Awarded the Engineering International Scholarship worth **$10,000**
- Awarded the President's scholarship worth **$4,000**

EXPERIENCE

Software Engineering Intern — April 2023 - April 2024
Xe.com ☑ / Euronet Worldwide — *Ottawa, ON, Canada*
- Leading the development of a new product "Xe Insights" ☑, garnering over 24,000 waitlist signups
- Developed a highly customizable FX trading dashboard, combining several widgets and data sources
- Architected a scalable multi-region AWS deployment with relevant services for optimal performance
- Utilized websockets to ensure uninterrupted and instant delivery of live financial data
- Built several pipelines to combine and clean data in real-time from 12 different financial sources.
- Integrated Stripe subscriptions, with multiple plans, controlling access levels within the product
- Optimized SEO on Xe.com, resulting in improved rankings and 750K/month (12%) more page views
- Developed a localization framework, with over 20 languages, leading to increased views and signups

Software Engineering Intern (Part time) — April – August 2023
Remenu.io ☑ — *Denver, CO, USA*
- Added the ability to start from premade templates, vastly reducing onboarding time
- Identified several security vulnerabilities and implemented fixes by sanitizing user input
- Improved UX, by automatically opening, and scrolling to relevant sections on click

Freelance Developer — *Remote*
- Completed work for over 15 clients, generating more than **$2,500** in revenue
- Created and currently maintain a discord bot handling support tickets of a 5000+ member server
- Developed several static wesites using Gatsby, Astro, and TailwindCSS

PROJECTS

Media Hunter ☑ | *Next.js, React, TailwindCSS, Node.js PostgreSQL, Docker*
- Developed a full-stack web application to track media consumption across various streaming services
- Implemented Google OAuth to Authenticate Users, storing user data in a PostgreSQL Database
- Utilized the Twilio+Sendgrid API to notify users when a new episode of their tracked show was available

Podcast Digest | *Remix, Cloudflare, Fly.io, Whisper*
- Built an app to automatically summarize podcasts, distilling key info into a weekly email
- Utilized transformers, whisper and Claude3 effectively to streamline audio-to-summary conversion
- Developed a framework to spin up and shut down on-demand GPUs on Fly.io to save cost

Colorcal ☑ | *Remix, Google Calendar, Cloudflare, Google Gemini*
- Developed a service to automatically sort and organize your calendar whenever new events are detected
- Setup self-renewing webhooks from Google calendar to identify when new events are created
- Utilized Google Gemini to classify events into several, modifiable buckets based on the users tags

Ring Doorbell Clone | *Python, OpenCV, Pushover API, Raspberry Pi*
- Created a website to allow viewing a live camera feed from anywhere
- Utilized OpenCV and the haarcascade algorithm to detect faces and movement in real time
- Sent push notifications to user devices using the Pushover API, when a face was detected

TV Quotes API ☑ | *Rust, Python, Selenium, PostgreSQL, Docker*
- Scraped over 100,000 TV Quotes from various sites, and served over GraphQL+REST with filters

TECHNICAL SKILLS

Languages: Rust, JavaScript/Typescript, Python, C/C++, SQL, HTML/CSS
Tools: Axum, Next.js, React, TailwindCSS, Node.js, Flask, FastAPI, Git, Docker, Unix, AWS