Rishabh Venu

Chatham, Ontario   ✉ venurishabh@gmail.com   📞 (647) 705-6965   🔗 rishabhvenu.xyz

Education

University of Waterloo
Bachelors of Computer Engineering
- **Coursework:** Programming, Linear Circuits, Digital Circuits, Classical Mechanics, Calculus

Projects

Code Clashers
- Developed a competitive coding platform in **React** where users engage in real-time leetcode-style coding battles
- Fine-tuned OpenAI's GPT-4 model with problem data to generate **1000+** diverse coding problems with varying difficulties alongside test cases
- Used AWS **API Gateway WebSocket** to implement a ranked matchmaking system and real-time messaging between users
- Engineered a social media component with a personalized feed algorithm by aggregating data with **MongoDB** and logging all user interactions
- Leveraged AWS **Lambda** to create a fully serverless backend architecture, powering the entire application logic
- Implemented secure AWS **API Gateway** integration with Lambda functions for seamless communication between **CloudFront** & Lambda
- Utilized **Docker** to containerize and standardize the runtime environments for Lambda functions to keep consistency across development and production environments

Expensify (Hack The Valley 7)
- Built an expense tracker application using **React** and **Next.js**, allowing users to easily log and categorize their financial transactions.
- Integrated **OpenAI API** to provide AI-powered recommendations for optimizing user spending habits based on transaction data
- Used **MongoDB Atlas** for secure, scalable storage of user data, transaction records, and real-time financial analytics
- Deployed on **Vercel**, utilizing serverless functions and automated CI/CD pipelines for streamlined deployments and preview builds

KitPvP Plugin
- Contributed to a Minecraft duel plugin with over **250K+** downloads, used by prominent YouTubers with over **350K+** subscribers, leveraging **Java** for core plugin development and optimization
- Integrated **MySQL** support for efficient data management of player stats, match history, and leaderboard
- Developed a scalable developer API using **Spring Boot**, allowing external plugin support and enabling developers to easily integrate custom features

Experience

Senior Studios   *Remote*
Software Developer   *Feb 2020 - Jul 2023*
- Developed Minecraft plugins, leveraging **Java** for development and using **MySQL** for efficient data storage and retrieval
- Programmed Discord bots utilizing **Node** and Discord.js to create interactive and automated systems
- Managed commissions for **100+** clients & freelancers, reviewed applications of **50+** potential freelancers and recruited **30+** developers

Entity Builds   Remote
Software Developer   *Apr 2022 - May 2022*
- Engineered pay-as-you-play golf plugin for CryptoShack 🔗 using Java including mechanics such as live action-bars
- Retrieved currency from a crypto wallet storing **1,700+ ETH** and sent to server with a **100+** player average

Skills

Languages: Typescript, Javascript, Java, Python, C, C++, PHP, HTML, CSS, SCSS

Technologies: AWS, Vercel, Node.js, React, Angular, Next.js, Express, Flask, Spring, Socket.IO, Tailwind, SQL, Mongo, Redis, Linux, Git, Docker, Heroku, Git