

Vishwanth Reddy Jakka

| vishwanthreddy2601@gmail.com | linkedin.com/in/jvvr/ | github.com/vishwaj1 | vishwaj1.github.io/vishwaj1/

EXPERIENCE

Software Engineer, University of Maryland Baltimore County

Aug 2024 – May 2025

- Delivered Campus Pantry, a real-time meal-reservation site that lowers food waste and aids food-insecure students.
- Built React and TypeScript front end with Redux and Google Maps, mobile loads under one second for more than two thousand users.
- Designed REST and GraphQL APIs with Node.js, Express, PostgreSQL, implemented JWT role-based auth, and sustained about 3000 reservation requests per day with an error rate under one percent.
- Containerised services in Docker and wired a GitHub Actions CI/CD pipeline for blue-green deployments on AWS EC2 and RDS , added OpenTelemetry and Grafana monitoring that cut average API latency from 450 ms to 180 ms.

Full Stack Developer, Polycom Inc

April 2022 – May 2023

- Helped rebuild a hospital dashboard using React + TypeScript, cutting load time by 35% and improving overall user experience.
- Developed secure APIs in Node.js for patient scheduling and reports, using JWT/OAuth for login and data protection.
- Containerized the app using Docker, and worked on Kubernetes deployment with auto-scaling and smooth updates.
- Added an AI-powered feature that suggests diagnosis codes using a BERT model, reducing manual work for doctors by 22%

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, Bash, SQL

Frontend Technologies: Next.js, React.js, Vue.js, HTML5, CSS3, JavaScript, TypeScript, Tailwind CSS, Redux, Vuetify,

Databases: PostgreSQL, MySQL, MongoDB, DynamoDB

Backend Technologies: Node.js, FastAPI, Flask, Django, Spring, Celery, gRPC, MVC, RESTful APIs, GraphQL, Redis, Nginx

Cloud & Infrastructure: AWS (EC2, S3, RDS, Lambda, CloudFormation, Amplify, Cognito, API Gateway, SQS), Azure , GCP

CI/CD & DevOps: Docker, Kubernetes, Docker Compose, GitHub Actions, Jenkins, GitLab CI, Terraform

System Design & Architecture: Microservices Architecture, High Availability Systems, Scalability, Fault Tolerance, API Design

Other Tools & Integrations: Prisma ORM, OpenTelemetry, Grafana, NextAuth, Chrome Extensions (Manifest V3), Vercel, Render

Operating Systems: Linux, Windows, macOS

PROJECTS

Pretty Prompt

- Developed a Next.js and Tailwind CSS frontend with a FastAPI backend and Groq integration to rewrite, shorten, lengthen, and re-tone prompts using multiple LLMs, with real-time scoring and comparison.
- Implemented user authentication, prompt history, and template CRUD using NextAuth, Prisma ORM, and Supabase/Postgres, with full CORS support and responsive UI controls for seamless prompt management

Voice-Powered Chrome Extension

- Built Web Talk at HackHound2025 a hands-free web browsing Chrome extension that converts speech to text (WebSpeechAPI) and routes commands through Groq + Gemma2-9b-it LLMs.
- Executes tab/page actions via Chrome Tabs & Scripting APIs under ManifestV3, summarizes and answers question about the page. Further roadmap includes multilingual input and TTS feedback.

Anonymous Grading system

- Developed a Java-based grading system that automated exam evaluations using barcode scanning and student-ID mapping, boosting grading speed by 60%.
- Built a secure backend with AWS Amplify, Cognito, GraphQL, and DynamoDB, reducing manual grading errors by 80%.

EDUCATION

University of Maryland Baltimore County

Master of Science in Computer Science

Graduation Date: May 2025

GPA: 3.81/4.0

Vasavi College of Engineering

Bachelor of Science in Computer Science

Graduation Date: May 2023

GPA: 3.6/4.0

CERTIFICATES

- Explore React.js Development — Issued by LinkedIn Learning
- JavaScript Foundations Professional Certificate — Issued by Mozilla
- Career Essentials in GitHub Professional Certificate — Issued by GitHub
- AWS Academy Graduate – Cloud Foundations — Issued by Amazon Web Services (AWS Academy)
- Docker Foundations Professional Certificate — Issued by Docker