

Vedd Kuknur

780-908-0984 | ved.kuknur@gmail.com | linkedin.com/in/Veddkuknur | github.com/Veddkuknur | [Website](#)

EDUCATION

University of Alberta

Bachelor of Science in Computer Science with Specialization

Edmonton, AB

Sept 2020 – Jun 2025

EXPERIENCE

Software Developer Intern

May 2024 – Present

INVIDI Technologies LTD

Edmonton, AB

- Increased backend efficiency by developing and maintaining **Kotlin & Python** services, enabling seamless ad delivery and a 20% boost in campaign throughput.
- Expanded operational agility by deploying and managing containerized apps on **Amazon S3, Lambda & AWS Redshift**, supporting 2400+ active client channels with minimal latency and effortless scaling.
- Enhanced user experience by maintaining and developing front-end dashboards in **Vue.js**, leading to more intuitive interfaces and improved workflow efficiency.
- Ensured upto 100% availability and scalability by leveraging **Kubernetes & Docker** for container orchestration, resulting in stable service performance during peak traffic loads.
- Streamlined infrastructure management by automating deployments with **Terraform**, reducing manual configuration overhead and improving overall reliability.
- Facilitated team productivity by taking on **Kanban & SCRUM** responsibilities such as sprint planning, daily stand-ups & retrospectives

Software Developer Intern

Jun 2023 – Aug 2023

TATA Consulting Engineers ltd

Mumbai, India

- Accomplished a 15% reduction in inventory costs by implementing custom time-series **ML feature engineering** for inventory forecasting, resulting in faster model convergence, and reliable predictions
- Collaborated with a team to migrate existing asset repositories to a **React.js** based platform, centralizing software and applications.
- Enabled real-time inventory insights by developing **DataDog** dashboards, allowing teams to visualize movement trends across multiple warehouses and improve replenishment accuracy

PROJECTS

MediCheck | *Next.js, OpenAI API, PostgreSQL, AstraDB, Node.js*

github.com/MediCheck

- Awarded 3rd place at HackEd hackathon, recognized for its innovative integration of **LLM**-driven features in a HIPAA-compliant healthcare platform.
- Engineered a full-stack healthcare platform using **Next.js, React, & Node.js**, tightly integrated with **OpenAI**'s APIs to leverage LLM-driven features for transcription, summarization, and patient-clinician communication.
- Leveraged **AstraDB** for maintaining a **RAG pipeline** and **PostgreSQL** for scalable, secure storage of session data, forms, and chat histories, ensuring HIPAA-compliant data handling.

Gazprea Compiler | *C++, LLVM, MLIR, ANTLR, Linux, CMake*

github.com/Gazprea-Compiler

- Engineered a high-performance compiler in **C++** using **LLVM** and **MLIR**, integrating advanced parsing with **ANTLR**, semantic analysis, code generation, and matrix multiplication optimizations.
- Achieved a 40% reduction in runtime, strengthened debugging capabilities, and demonstrated deep expertise in compiler design and software engineering.

QR-GO Mobile Game | *Java, Firebase, Android, Gradle, Google Maps SDK*

github.com/QR-Go

- Implemented live maps using GMaps SDK, where players can see in-game landmarks superimposed on real world.
- create the back-end framework for the project and Firebase as the database and storage for user data

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C/C++, SQL, HTML/CSS, Dart

Frameworks: React, Vue.js, Node.js, MongoDB, Express, Flutter, Django, TensorFlow

Developer Tools: AWS, Linux, Docker, Terraform, Google Cloud Platform, CMake, Git

Libraries: PyTorch, scikit-learn, pandas, NumPy, Matplotlib