

VEDD KUKNUR

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EXPERIENCE

Software Developer Intern

May 2024 – Present

INVIDI Technologies

Edmonton, Canada

- 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.
- Elevated real-time decision-making during high-traffic ad campaigns by optimizing consumer ad-targeting pipelines, reducing latency by 40% and accelerating data-driven adjustments.
- 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

May 2023 – Aug 2023

TATA Consulting Engineers Limited

Mumbai, India

- Elevated model performance with custom feature analysis for an inventory stock management ML model, resulting in faster convergence and more reliable stock predictions.
- Improved inventory demand forecasting accuracy by implementing **ARIMA Machine Learning** models to analyze time-series data, resulting in a more precise demand forecast that reduced stockouts by 15% and lowered surplus inventory costs.
- 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 desktop dashboard, allowing teams to visualize movement trends across multiple warehouses and improve replenishment accuracy
- Ensured accurate and consistent data modeling by creating ER & UML diagrams and drafting FRS & FDS documentation, resulting in clear technical requirements and faster development cycles.

PROJECTS

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

 MediCheck


- Awarded 3rd place at HackEd-University of Alberta, 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.
- Designed role-based access controls (RBAC) to segment patient and clinician views, ensuring secure data retrieval and compliance with healthcare privacy standards.

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

 Gazprea-Compiler

- Engineered a high-performance compiler for the Gazprea DSL in **C++** using **LLVM & MLIR**, integrating advanced parsing using **ANTLR**, semantic analysis, and code generation techniques.
- Enhanced execution efficiency by implementing advanced matrix multiplication optimizations using **MLIR & LLVM** passes, and strengthened debugging capabilities—demonstrating deep expertise in both compiler design and software engineering.

Social Distribution | *Python, Django, MySQL*

 Social-Distribution

- Engineered a suite of **RESTful APIs** that facilitated seamless inter-node communication & Implemented an **inbox-based model** to distribute posts between nodes, allowing authors to follow and aggregate content from other users across nodes.

EDUCATION

University of Alberta

Sept 2020 - May 2025

Bachelor of Science in Computer Science with Specialization

SKILLS

Languages: Kotlin, Python, Go, SQL, Dart, Java, JavaScript, Julia, C++, C, ARM

Tools & Technologies: Flutter, Pytorch, MERN stack (MongoDB, Express, Node, React), Django, MATLAB, Pandas