Sai Kireeti Chalamalasetty

SaiKireeti | 605-740-1060 | saikireetichalamalasetty@gmail.com | SaiKireeti.com | GitHub

Skills

- **Languages**: Python | Java | SQL | JavaScript | TypeScript
- **3D Modeling Tools**: Meshy API
- **Frameworks**: Spring Boot | Hibernate | Flask
- **Frontend**: HTML | CSS | ReactJS | Angular | XML
- **Backend**: Node.js | Express.js
- **Tools & IDEs**: Jupyter Notebook | Google Colab | Visual Studio Code
- **Version Control**: Git | GitHub | Ngrok | Google Apps Script | Google Drive API
- **Web Services & Messaging**: REST | SOAP | JMS
- **AI / ML**: PyTorch | TensorFlow | Hugging Face | Open AI API | Image-to-3D Models | Text-to-3D Models

Experience

Full Stack Developer **Lid Vizion** **Miami**, *FL, USA,* **Jan/2024- Current**

- Developed a full-stack web application that converts public image URLs into 3D models using the **Meshy API**, integrating **React.js**, **Node.js**, and asynchronous request handling.
- Engineered a backend to handle multi-image inputs, enabling **bulk 3D model generation** from up to 6 images in one session.
- Leveraged **Claude AI (Anthropic)** to generate dynamic Blender scripts from text prompts, enabling **text-to-3D obstacle generation** with 90% reliability.
- Designed and deployed a full pipeline connecting **Flask API**, **Google Sheets**, **Google Apps Script**, and **Google Drive** for prompt processing and asset delivery.
- Focused on modular architecture and clean code practices to ensure future extensibility, real-time feedback, and seamless user experience.

Java Full Stack Developer **Merkle** ***Coimbatore****, TN, India,* **July/2022 – June/2023**

- Designed and developed a **real-time survey analytics dashboard**, enabling faster, data-driven business decisions.
- Improved application performance by **30%** through SQL query optimization and backend code refactoring.
- Built secure and scalable RESTful APIs using **Java**, **Spring Boot**, and **JWT**, supporting role-based access and large datasets.
- Created responsive, user-friendly interfaces with **AngularJS**, **HTML**, and **CSS**, in collaboration with UI/UX teams.
- Automated backend workflows, reducing manual tasks and increasing code maintainability and efficiency.
- Managed the complete software development lifecycle using **GitHub**, ensuring clean version control and smooth team collaboration.

Full Stack Developer Intern **Techfest** ***IIT, Bombay****, India,* **Nov2021 - Jan/2022**

- Developed a complete e-commerce web app using **Angular** for the frontend and **Node.js + Express.js** for the backend, allowing users to browse products, register, and place orders.
- Designed and implemented backend models using **MongoDB** to handle product listings, pricing, user accounts, and order details in a structured, scalable format.
- Integrated responsive UI components for user notifications, enhancing the shopping experience and overall usability.

Education

Master of Science **University of South Dakota** *Vermillion, SD, USA* **Aug/2023 – May/2025**

- Major in Computer Science.
- Relevant Coursework: Computer Vision, Machine Learning Algorithms, Pattern Recognition, Data Mining

Projects

- **Meshy API WEB APP:** I built a web app that turns public image links into 3D models using Meshy generative AI. I designed the frontend using **React.js** and set up the backend with **Node.js** to handle API requests smoothly. The app allows users to paste image URLs and get downloadable 3D models within seconds.
- **Claude 3D Obstacle Generation System:** This project lets users create 3D objects just by typing text prompts. I connected **Claude AI** with **Blender** to generate. glb models. I used **Flask** and **Google Apps Script** to read prompts from a Google Sheet,

run the backend process, and send the finished models to Google Drive everything is automated.

- **Diabetes Prediction using Machine Learning**: I built a machine learning model that predicts early signs of diabetes using real patient data from the **Pima Indian Diabetes dataset**. I used **multiple algorithms like Support Vector Machine, Random Forest, Decision Tree, and AdaBoost**, and combined them using an ensemble model. This approach improved accuracy and helped identify high-risk patients with up to 95% precision supporting early diagnosis and better healthcare outcomes.
- **E-Commerce Web Application**: I built a full-stack e-commerce web application where users can register, browse products, and place orders. I designed the frontend using **Angular** and developed the backend with **Node.js**, **Express.js**, and **MongoDB** to manage users, products, and payments. The app also includes features like discounts, cart total calculation, and secure user authentication for a smooth shopping experience.
- **Survey Analytics Platform**: At Merkle, I helped build a platform that shows live survey results in real time. I worked on the frontend using **AngularJS** and built backend services in **Java and Spring Boot**. I also made sure everything was fast and secure by optimizing database queries and using **JWT authentication** for login.

Research Paper

- **Covid Alert System:** During the COVID-19 pandemic, we built a smart system that detects people not wearing masks in public places like malls or schools.
- I trained a machine learning model using **OpenCV** and **CNN** that could recognize faces without masks and trigger alerts with up to **99% accuracy**.
- Our goal was to support public safety by automating mask detection and helping reduce virus spread in crowded areas.