Sai Kireeti Chalamalasetty

A blue square with white letters

Description automatically generated [SaiKireeti](https://www.linkedin.com/in/sai-chalamalasetty/) | A blue and white cell phone

Description automatically generated 605-740-1060 | A red and white envelope with a black background

Description automatically generated [saikireetichalamalasetty@gmail.com](mailto:saikireetichalamalasetty@gmail.com) | A blue and green globe

Description automatically generated [SaiKireeti.com](https://piratekingdom.com/) | A black cat with a blue circle

Description automatically generated [GitHub](https://github.com/sai-kireeti)

# **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**](https://link.springer.com/chapter/10.1007/978-3-030-95502-1_2)**:** 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.