

# AMIT DUTTA

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## TECHNICAL SKILLS

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**Languages** JavaScript, TypeScript, Python, C++, Java, HTML, CSS, SQL  
**Frameworks** Reactjs, Nextjs, Nodejs, Tailwind CSS, Material UI, Docker, Kubernetes, Git, GCP

## EXPERIENCE

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**Google** July 2022 - Present  
Software Cloud Engineer - Full Stack *Bangalore, India*

- Developed **Navi**, an LLM playground integrating Gemini, Codestral and Open AI APIs, enabling users to customize parameters such as **temperature** and **token** limits (up to 10,000 tokens).
- Implemented a dynamic **chat history** feature capable of storing past interactions for enhanced usability and experimentation. The platform supports rapid response generation, averaging less than 2 seconds per query, and has been used by over **100 users** during its beta testing phase.
- Designed and developed a custom web application for **Albertsons** merchandisers providing a dynamic interface to build and manage widgets powering product pathways. Integrated OAuth login, drag-and-drop product management, boost/bury functionality, and time-based widget activation, enhancing merchandising efficiency and product display control.
- Developed an **AI-powered** interactive interface enabling over 500 technicians to query vehicle manuals for repair and maintenance procedures. Leveraged pre-trained LLM models via **Vertex AI** to provide detailed QnA responses with up to **90%** accuracy, including outcome summaries with links, page references, and relevant images/diagrams from over 1,000 manuals.
- Designed and implemented a custom search interface for the financial team, improving document retrieval speed by **95%**, utilizing Enterprise Search powered by **Vertex AI** LLM models for seamless access to thousands of documents.
- Developed and deployed a Text-to-JSON transformation and JSON-to-image generation service, for **Betmakers**, that processed over 100 racecourse data entries to produce more than 300 images. Exceeded a 90% accuracy target, achieving **93.8%** success with an average image generation time of 20 seconds, enabling real-time data visualization for customer production use.

**Oracle** January 2021 - June 2022  
Software Engineering Intern *Bangalore, India*

- Elevated the **Aconex Navigation Service** within Oracle's Construction and Engineering division.
- Transformed the existing navigation service by developing **modular** and **high-speed** enhancements.

**Mesha** September 2021 - December 2021  
Blockchain Engineering Intern *San Francisco, US*

- Innovated in the realm of blockchain technology by crafting **Smart Contracts** for various Crypto challenges, contributing to the development of **Meshaverse** using **Chainlink**.
- Designed and implemented a user-friendly web app for Meshaverse, streamlining **user registration** and the **buying/selling** of personal tokens

**Samsung Research Institute Bangalore** May 2021 - July 2021  
Software Engineering Intern *Bangalore, India*

- Created the **Frontend of Galaxy SmartTag** to find nearby BLE devices in **SmartThings Application** which has **500M+** downloads.
- Implemented memory optimization strategies, reducing usage by 2.7 MB through the efficient recycling of views using ArrayAdapter and ListView.

## EDUCATION

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**B.Tech in Computer Science** Birla Institute of Technology, Mesra, Ranchi (GPA 8.65/10) 2018-2022