

# MAYANK DEVANGKUMAR TAMAKUWALA

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## EDUCATION

**California State University Long Beach** - GPA (3.75/4.00) - Magna Cum Laude **Long Beach, CA**  
*Bachelor of Science in Computer Science* *Graduated in December 2023*  
**Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Search Engine Technology, Database Fundamentals, OOP, Software Management and Testing, Advanced C++

## SKILLS

<b>Programming Languages</b>	Python, Java, C++, C, TypeScript, JavaScript, Swift, Kotlin
<b>Database</b>	Amazon DynamoDB, Amazon RDS, MongoDB, PostgreSQL, GraphQL, MySQL, JPA
<b>Web Development</b>	React.js, Node.js, Next.js, Vue.js, Webpack, Flask, RESTful API, Socket.io, React Query
<b>Frameworks &amp; Libraries</b>	Jest, Modernizr, Enzyme, Selenium, Django, Express.js, React Native, Tailwind CSS
<b>ML/Software/Tool</b>	Tensorflow, PyTorch, Sklearn, Kubernetes, Docker, GitHub, CI/CD, AWS, JIRA
<b>Certificates</b>	<a href="#">AWS Cloud Practitioner</a> , The Leadership Academy Honors, President's List, Dean's List

## EXPERIENCE

**Grossi Consulting LLC** **Raleigh, NC**  
*Full Stack Developer* *February 2024 - Present*

- Faced with the task of creating highly customized websites for a **diverse range of clients and industries** as a highly motivated Full Stack Developer at a web design agency.
- Led development and deployment on **GCP**, ensured seamless communication, used **GitHub** for better version control, and **Jest** for unit testing, with extensive **DOM manipulation** and **JavaScript Object Model** usage.
- Engineered solutions with **Next.js**, **Node.js** and **React.js** for the frontend and **Express.js**, **Flask** and **GraphQL** for backend REST APIs, configured **Cloudflare**, **AWS S3**, **Elastic Load Balancer**, and **Lambda** for scalability, and utilized **Google Tag Manager**, **Google Search Console**, and **Google Analytics** for **SEO enhancement**.
- Delivered the projects on time, resulting in a **significant** increase in client satisfaction and referrals, and bolstered our agency's reputation for solving complex technical issues using AI and innovation.

**Karsun Solutions LLC** **Herndon, VA**  
*Software Engineer Intern* *May 2022 - August 2022*

- Aimed to construct synthetic data suitable for a myriad of Machine Learning and Artificial Intelligence Use Cases, a project requiring the generation of fictitious Personal Identifiable Information based on user inputs.
- Employed **React.js** and **Node.js** for frontend development, with **Jest** and **Lighthouse** for performance and responsiveness testing, addressing potential bottlenecks and ensuring seamless user experience. Utilized **JavaScript design patterns** extensively.
- Utilized libraries like **Synthetic Data Vault(SDV)** and the **Faker** library in **Python**, integrated with **AWS services (S3, Cognito, Amplify)** to optimize storage and authentication.
- Produced synthetic data closely **resembling authentic data**, enabling successful model training within a **tight 5-week deadline** and **reducing production time by 35%**, demonstrating accountability and innovation.

## PROJECTS

**Los Angelos** *December 2023 - Present*  

- Contributed to developing a **Decentralized Autonomous Organization (DAO)** website using **Next.js**, **Redux**, **MongoDB** and, **Web3.js-Solana** for the frontend with a **Flask** backend integrated with the **Solana blockchain**. Utilized **Artificial Intelligence** to generate images to user's own unique specifications enabling them to **mint NFTs**.

**Image Upscaler & Restorer** *April 2024 - May 2024*  

- Implemented an advanced image upscaling and restoring tool using **GFPGAN** with **Python** and **PyTorch**, achieving **4x resolution enhancement** and **98% facial detail accuracy**, integrated with Gradio for a user-friendly web app offering real-time processing under 8 seconds, highlighting the importance of image processing and research.

**FaceFusion** *November 2023 - January 2024*  

- Develpoed FaceFusion with **95% face detection accuracy** using Insightface's **buffalo\_l** model and **inswapper\_128.onnx** model in **Python**. Featured a **GradioUI**, deployed on **HuggingFace** and **AWS EC2** as an API using **FastAPI** with under **100 milliseconds response time**. The project focused on image processing using AI.