Mayank Gupta

Full Stack Developer

Richardson, TX
945-274-8912
mayankgupta9827usa@gmail.com
Portfolio | Github | LinkedIn

EDUCATION

University of Texas at Dallas | Dallas, USA — AUGUST 2023 - MAY 2025
Master of Science in Computer Science — GPA: 3.88

National Institute of Technology Kurukshetra | Kurukshetra, India — JULY 2015 - MAY 2019
Bachelor of Technology in Computer Engineering — GPA: 3.52

EXPERIENCE

Staff Engineer | Fundwave Technologies | Delhi, India — JULY 2022 - JUNE 2023

- Architected **2 microservices** in **Node.js**, **Express.js** & **MongoDB**, containerized using **Docker**, decoupling critical functionalities from a monolithic server, **reducing system latency by 20%** for related API endpoints
- Led the **Captable** project from concept and architecture to deployment, enabling funds to model ownership scenarios and forecast investment returns, driving **1.4x growth** in product adoption
- Planned and **led 18 agile technical sprints**, backlog grooming, and **code reviews,** ensuring adherence to clean code practices and on-time high-quality feature delivery

Senior Engineer | Fundwave Technologies | Delhi, India — JANUARY 2021 - JUNE 2022

- Spearheaded the development of a **Captable management tool** using the **MERN stack** (MongoDB, Express.js, React.js, Node.js), empowering funds to track equity ownership, contributing to **12% of the company's ARR**
- Engineered **35 custom Excel functions** using **Office JavaScript API**, enabling clients to generate real-time customizable reports, reducing manual reporting effort by **90%**
- Designed, published, and maintained **8 reusable UI components** using **TypeScript**, **React.js**, and **Lit-html**, seamlessly integrating into **5 internal products** through **CI/CD pipelines** using Lerna and Git workflows
- Released and documented **24 RESTful OpenAPI endpoints** using **Typescript** and **YAML**, published on **Swagger**, providing clients with efficient access to high-demand portfolio data

Full Stack Developer | Fundwave Technologies | Delhi, India — JULY 2019 - DECEMBER 2020

- Built a **full-featured Dealflow dashboard** using the **MERN stack** to streamline investment evaluation workflows, significantly enhancing decision-making efficiency for fund managers
- Enhanced the website's **UI/UX** using **HTML**, **CSS**, **JS**, and optimized the asset pipeline with **Gulp tasks**, reducing overall **website size by 35%** and improving **page load speed by 25%**
- Conceived a **Gmail add-on** using **Google Apps Script** to integrate users' email inboxes with the *Dealflow* product
- Boosted website discoverability by improving **SEO performance**, driving the company's website into the **top 3 Google search results** for **70% of targeted keywords**, increasing inbound traffic, and product discovery

Data Analyst Intern | Pingal Technologies | Mumbai, India — MAY 2018 - JULY 2018

- Deployed an **automated web scraper** using **Selenium** and **BeautifulSoup** to extract quarterly financial data for **500+ companies** listed on the Bombay Stock Exchange
- Cleaned and analyzed over **10,000 data points** using **pandas** and **matplotlib** to generate visual insights and forecast company performance trends

ACADEMIC PROJECTS

Partition Tolerant Distributed System| Java, WebSocket | Github

- Created a **fault-tolerant distributed system** that ensured **total message ordering** across 7 nodes in a simulated distributed environment using **Java**, even in the presence of **network partitions** and **failures**
- Developed a **centralized controller** module to coordinate communication among nodes using **WebSocket-based message passing**, achieving high network reliability, message synchronization, and system-wide consensus

AI-powered Pacman Game | Python | Github

- Implemented intelligent search algorithms, including **Breadth First Search (BFS)**, **Depth First Search (DFS)**, **A* Search**, and **Reinforcement Q-Learning**, to enable optimized pathfinding behavior by Pacman
- Configured **custom agents** to maximize food collection while dynamically adapting to ghost movements

Compiler Construction | Java, JFlex, CUP parser | Github

- Modeled a **compiler for a Java-like language**, implementing **lexical**, **syntax**, and **semantic analysis** to parse and validate user-defined programs with 95% parsing accuracy across 75+ test cases
- Utilized **JFlex** for token generation and **CUP Parser** to define grammar rules, constructing **Abstract Syntax Trees (ASTs)**, and enforcing syntactic correctness
- Programmed modular components for semantic checks, including **type validation**, **scope resolution**, and **error diagnostics**, mimicking the behavior of modern statically typed languages

TECHNICAL SKILLS

Databases: MySQL, MongoDB, GraphQL, MariaDB
Frameworks & Libraries: React, Redux, Node.js, Express.js, SpringBoot, Lit-html
Tools & Platforms: Git, Docker, Google Cloud Project, Firebase, AWS, Webpack, Lerna, Jest, Gulp.js, OAuth
Languages: JavaScript, TypeScript, Python, Java, Google Apps Script, HTML, CSS, SCSS