# PREYASH AMAR MEHTA

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## PROFESSIONAL EXPERIENCE

**Formless Inc, Boston, USA**                                          **June 2024 - October 2024**
*Software Engineering Intern*

- Architected and deployed a high-performance decentralized application (**dApp**) with **React** and **TailwindCSS**, leveraging **RPC** calls and **Web3.js** for seamless real-time data synchronization, leading to a **30%** reduction in data retrieval latency
- Built and enhanced RESTful APIs with **Node.js** and **TypeScript**, boosting backend performance by **25%**, and employed scalable solutions on Google Cloud Platform (**GCP**) utilizing **Cloud Run** and **Pub/Sub** for automated workflows
- Crafted a seamless experience through innovative features like interactive pagination and efficient data retrieval mechanisms using React hooks, enhancing user engagement metrics by processing over 10k interactions per day without lag
- Devised and validated complex AG Grid data grids with React, cutting user input errors and boosting data accuracy by **35%**

**Atos, Pune, IN**

*Associate Consultant* **- GCM 2**                                          **March 2023 - June 2023**

- Designed and implemented **RESTful** APIs with Node.js and TypeScript to streamline data processing workflows, reducing API response time by **20%**
- Spearheaded the migration of backend services to AWS Lambda and **S3**, enabling serverless architecture and reducing infrastructure costs by **30%**
- Developed and deployed containerized applications using **AWS**, optimizing performance and stability with monitoring tools like **DataDog**

*Associate Consultant* **- GCM 1**                                          **March 2021 - March 2023**

- Developed backend services utilizing **Node.js** and Express.js, implementing scalable solutions for API endpoints and handling high traffic volumes with a **98**% uptime SLA
- Built and maintained **CI/CD** pipelines to deploy serverless applications on AWS using AWS **CDK**, reducing manual intervention by **40%**
- Worked with SQL databases such as **PostgreSQL** and **MySQL** to design normalized schemas, optimize indexing strategies, and enhance query performance, reducing execution times by **30%**
- Designed and managed multiple microservices architectures on AWS, focusing on high availability, horizontal scalability, and low-latency operations
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## ACADEMIC PROJECTS

**Cloud Native User Onboarding Web App**                                          **November 2024**

- Evaluated Terraform (IaC) to create VPC stack, underlying network, **S3**, **RDS** & **SNS** subscribed to lambda function for Simple Email Service (SES) to send user verification email on Sign up for seamless onboarding experience
- Implemented a GitHub Actions **CI/CD** pipeline to trigger testing & build a custom **AMI** through Packer deployed on **AWS EC2** instance, reflected on VPC by provisioning Instance Refresh as part of the Auto Scaling Group (**ASG**)
- Monitored VPC stack using **CloudWatch** alarms to take automated actions to minimize mean time to resolution (*MTTR*)

**Event-Management Application | Demo**                                          **December 2023**

- Developed a **MERN** Event Management Web App for students, using **TailwindCSS** for UI styling
- Engineered Husky Events' **React** front-end with React Router and **Axios**, enhancing user experience
- Employed useContext hook & **JWT** for authentication, designed REST API with Express, security with bcrypt and **CORS**

## TECHNICAL SKILLS

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|---|---|
| **Programming Languages:** | Java, JavaScript, TypeScript, .NET, C#, Python, Spring Boot |
| **Web Development:** | React, Node.js, Express, Redux, Bootstrap, Angular, TailwindCSS, Material UI |
| **Software and Build Tools:** | AWS (Lambda, S3, EC2, VPC, DynamoDB), Azure DevOps, GCP, Git, Terraform, Packer, Docker |
| **Data Analytical Tools** : | MySQL, MongoDB, Microsoft SQL Server, PostgreSQL, Tableau, PowerBI, DataDog |

## EDUCATION

**Northeastern University,** Boston, Massachusetts, United States                                          **May 2025**
Master of Science in Computer Software Engineering                                          **GPA: 3.81**
*Related Courses: Object-Oriented Design, Web Development, Cloud Computing, Data Structures & Algorithm, Design Patterns*

**University of Pune**, Pune, Maharashtra, India                                          **May 2020**
Bachelor of Science in Computer Engineering                                          **GPA: 3.70**
*Related Courses: Machine Learning, System Design & Networking, Database Management, Computer Science, Information Systems*