VEDANT BOTHIKAR

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EDUCATION

Georgia Institute of Technology — August 2024 – May 2026
Master of Science in Computer Science (MSCS) — *Atlanta*

Pune Institute of Computer Technology — July 2019 – June 2023
*Bachelor of Engineering (B.E.) – Computer Engineering – **GPA: 9.69/10*** — *Pune*
Relevant Coursework: Data Structures & Algorithms, Machine Learning, Computer Networks

WORK EXPERIENCE

Data Center - Georgia Tech — September 2024 – Present
Software Engineer — *Atlanta*
- Deployed and configured **LINUX** (Ubuntu 22, 24 and RHEL 8, 9) on VMs and desktops for the Data Center machines.
- Optimized **Python** scripts for automation tasks, system monitoring, & troubleshooting in the data center environment.
- Utilized **SaltStack** for configuration management and leveraged **Cobbler** for OS deployment and network booting.
- Configured **Virtual Machines** using **Red Hat Virtualization** & other tools, thus optimizing resource utilization.
- Integrated and maintained asset tracking and inventory using the open-source **Snipe-IT** asset management tool.

MasterCard — June 2023 – August 2024
Software Development Engineer - 1 — *Pune*
- Designed system flows and developed **REST API** endpoints for integrating 3-domain secure authentication.
- Implemented services using **Java 11** and **Spring Boot**, and utilized **SQL** on **OracleDB** to manage database operations.
- Designed schemas of user models to authenticate payments through customers' personally identifiable information(PII).
- Debuted the Payment Passkey service allowing secure biometric payment transactions for **1M+** shoppers (View Here).
- Managed dependencies with **Gradle**, performed CI/CD operations with **Jenkins**, and generated API docs with Swagger.
- Proposed and developed a simulator service using **Mockito** to mock externally dependent authentication services.
- Reduced the **API** testing suite execution time by an average of 40% by migrating from Serenity to Karate framework.

Azodha — March 2022 – June 2023
Software Development Engineer - 1 — *Pune*
- Built a Telemedicine software in **Node.js** with video-conferencing ability and integrated a **Socket.io** chat system.
- Implemented a scheduler service in **JavaScript** and **GraphQL** with appointment and user management features.
- Managed a team of 4 backend engineers, overseeing the software lifecycle, project deliverables, and code quality.
- Launched a 3rd generation Chrome Extension in **React.js** and a web app acting as the replica of the mobile software.

Bolstart | *Software Developer Intern* — March 2021 – May 2021
- Built a Form-Builder software using **React.js** library and **MySQL** database, allowing users to create customized forms.
- Eliminated platform switching friction by creating in-app surveys and polls, thus enhancing user engagement.

PERSONAL PROJECTS

Quick Permit - Permission Software | *Node.js, MongoDB, Express.js* — October 2022 – May 2023
- Launched software to approve permission requests from 600+ college students to professors for conducting workshops and seminars. Digitized the existing paper-based system by creating a Node.js server using the **MongoDB** database.

Content Evaluation Using Natural Language Processing — August 2022 – May 2023
- Engineered an automated grading system combining 7 distinct content similarity and evaluation NLP models.
- Devised an algorithm to assign weights to ML models and integrated with a **Python Flask** web app with OCR.
- Resulted in more than 25% time reduction compared to the manual evaluation of assignments for final year students.

TECHINCAL SKILLS

Programming Tools and Languages – C++, Java, Python, JavaScript, TypeScript, C, SQL, HTML, and CSS
Web Frameworks & Libraries – Spring Boot, Node.js, React.js, Express.js, Redux, GraphQL
Databases – MongoDB, MySQL, Cloud Firestore, PostgreSQL, and Oracle DB
Developer Tools – Git, AWS, Docker, PCF, Linux, JSON, Webpack, XML, Agile, and Cloudflare Workers