VEDANT SHYAM BOTHIKAR

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EDUCATION

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

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

WORK EXPERIENCE

Mastercard   **June 2023 – August 2024**
Software Development Engineer - 1   *Pune, India*
- Designed system flows and developed **REST API** endpoints for integrating 3-domain secure authentication.
- Developed and managed a simulator service from scratch to mock external dependencies of the authentication services.
- Reduced the API testing suite execution time by an average of 40% by migrating from Serenity to Karate framework.
- Designed schemas of user models to authenticate payments through customers' personally identifiable information(PII).
- Delivered the merchant validation service, performing checks on 30+ PII parameters with stakeholder bank approvals.
- Implemented services using **Java 11** and **Spring Boot**, and utilized **SQL** on **OracleDB** to manage database operations.

Azodha   **March 2022 – June 2023**
Software Development Engineer - 1   *Pune, India*
- Built a Telemedicine software in **Node.js** with video-conferencing ability and integrated a **Socket.io** chat system.
- Implemented a scheduler service in **TypeScript** 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.

Atomic Loops | *Blockchain Developer Intern*   **January 2022 – March 2022**
- Composed smart contracts in Solidity using Web 3 and Ganache libraries and deployed these to Infura service.
- Created the MVP for an NFT application of a popular TV show and set up test chains for the blockchain networks.

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

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 dynamically and built a **Flask** web app with OCR capabilities.
- Resulted in more than 25% time reduction compared to the manual evaluation of assignments for final year students.

Quick Permit - Permission Software | *Node.js, MongoDB, Express.js*   **October 2020 – May 2021**
- 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.

TECHINCAL SKILLS

Programming Tools and Languages – C++, Java, Python, JavaScript, 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

ACCOMPLISHMENTS

- **ZS Associates Hackathon:** Selected among India's top 100 from 1500+ competitors for solving technical case studies.
- **University Rank 3:** Ranked 3rd in the Computer Department for academic excellence in the final year of undergrad.