

# VEDANT BOTHIKAR

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## EDUCATION

### Georgia Institute of Technology

Master of Science in Computer Science, **GPA: 4/4**

August 2024 – December 2025

Atlanta, USA

### University of Pune - Pune Institute of Computer Technology

Bachelor of Engineering in Computer Engineering, **CGPA: 9.69/10**

August 2019 – May 2023

Pune, India

- **Awards:** University Rank 3 in the Computer Engineering department.

## EXPERIENCE

### Salesforce

May 2025 – August 2025

Software Engineering Intern

San Francisco, CA

- **Patent Approved:** Developed and patented an **AI Agent** Assistant for automatic guided creation of Salesforce Agentforce agents via predictive path planning and conversational flow design.
- Developed an AI Agent to search for security group deletions, reducing on-call resolution time to **under 5 minutes**.
- Designed a **multi-agent** system to automatically modify the Layer 7 DDoS mitigation algorithms, thus enhancing the Web Application Firewall (WAF) using **MCP Server**, AWS, Splunk, and Python.

### MasterCard

June 2023 – August 2024

Software Development Engineer - 1, Payment authentication team

Pune

- Debuted the Payment Passkey service allowing secure biometric payments for **1 Million+** shoppers (View Here).
- Implemented services using **Java 11** and **Spring Boot**, used **SQL** on **OracleDB** to manage database operations, and performed CI/CD operations with Jenkins.
- Designed sequence diagrams and user schemas, developed a simulator service, and defined API endpoints to integrate 3DS (3 domain secure) authentication.

Software Development Engineer - 1, Checkout team

- Delivered the merchant validation service, performing checks on 30+ PII parameters (Personally Identifiable Information) with stakeholder bank approvals.
- Reduced the **REST API** test execution time by an average of 40% by migrating from Serenity to Karate framework.

### Azodha

March 2022 – June 2023

Software Engineering Intern

Pune

- Built a Telemedicine software using **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.
- Launched a v3 Chrome Extension using **React.js** and a web app acting as the replica of the mobile software.

### Bolstart

March 2021 – May 2021

Software Engineering Intern

Remote

- 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.

## PROJECTS

### Drone Landing Zone Detection using Semantic Segmentation

April 2025

- Designed and implemented a hybrid supervised-unsupervised pipeline (SegFormer, MaskFormer, OneFormer + DBSCAN) to identify safe drone landing zones from aerial images, achieving 93% mean accuracy.
- Fine-tuned transformer-based segmentation models on the Semantic Drone Dataset (400+ annotated images) with data augmentation and hyperparameter optimization to improve IoU and Dice scores.

### Quick Permit - Permission Software | Node.js, React.js, MongoDB

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.

## SKILLS

**Languages:** C++, Python, JavaScript, Java

**Backend:** Spring Boot, Node.js, Express.js

**Databases:** MongoDB, MySQL, DataCloud, Firestore

**Frontend:** React.js, Redux, HTML, CSS

**Platforms and Tools:** AWS, Git, Linux

**Experience with:** GraphQL, Docker, PyTorch