

# SATYA KAMALA IMMIDISETTY

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## Education

**New York University** | *Master of Science in Computer Science* | GPA: 3.7/4.0 May 2026 (Expected)

- **Relevant Coursework:** Algorithms, Machine Learning, Cloud Computing, Big Data, HCI, Networking
- Teaching Assistant for Human-Computer Interaction at NYU Tandon, supporting a class of 30 students.
- Merit Scholarship Awardee & Grace Hopper Celebration 2025 Sponsorship Recipient

**BITS Pilani** | *BE Electrical and Electronics Engineering + M.Sc. Physics* | GPA: 7.95/10.0 May 2022

- **Relevant Coursework:** Object Oriented Programming, Operating Systems, C Programming

## Experience

### Software Engineer 1

Jul 2022 - Jul 2024

*PayPal* | Proprietary Database Access Tooling & Infrastructure (OCC) On-boarding

- Independently expanded the availability of new Oracle Connection Cache (OCC) instances, enabling 70+ teams annually—doubling adoption from the previous year and earning a SPOT BONUS for driving this initiative.
- Developed a Python-based command-line tool to automate CNAME configuration, saving 2000+ hours annually, reducing DNS misconfigurations by 99% and improving operational efficiency.
- Automated Oracle/MySQL databases password setup with a Python script, improving compliance and eliminating configuration errors by 99% that delayed developer access.
- Implemented Java and Lua based unit tests to simulate database replication delays in QA, enabling 15+ teams to diagnose sync issues before release and avoid production-only detection.
- Created deployment data reports using Python and Shell scripts to support migration of GoPay database servers in alignment with data residency and compliance regulations.
- Built an end-to-end observability pipeline for OCC flows, replacing legacy log-file parsing with OpenTelemetry-based monitoring, logging, tracing, and alerting to eliminate server delays and enable real-time metrics.

### Software Engineer Intern

Feb 2022 - Jun 2022

*PayPal* | Assisted in DB migration and enabled efficient deployment planning

- Reduced holiday readiness prep time from 4 months to 3–5 weeks for 500+ applications by building an autoscaling CLI tool that dynamically adjusts OCC instances, also minimizing manual interventions and errors.
- Automated data collection from observability reports to support DB migration from Data Center Group (DCG) to Cloud Compute Group (CCG), reducing manual effort by 15,000 hours enabling efficient deployment planning across AZs.

### Software Engineering Intern

Jun 2021 - Dec 2021

*Rivigo (Mahindra) Logistics* | Full-stack development for Fintech Team workflows

- Developed REST APIs for the e-invoicing system to automate final bill report generation, eliminating manual edits and saving 15% developer time at scale.
- Participated in the full API lifecycle, including development, integration, testing, documentation, and code reviews.

## Projects

### GrubDash

[Link](#)

- Designed and deployed a scalable, event-driven food delivery platform using AWS Lambda, DynamoDB, SQS, and WebSockets, capable of processing 100,000+ concurrent orders/day with real-time tracking and dynamic state transitions.
- Integrated real-time personalized restaurant recommendations using AWS Personalize, leveraging 10,000+ user-item interactions and live event tracking to dynamically adapt suggestions based on customer behavior and context.

### GestureDraw

[Link](#)

- Created gesture-based drawing UI using MediaPipe and Keras for color selection, brush control, and canvas actions.
- Built a threaded system for continuous voice input using Google Speech Recognition enabling fluid user control in creative tasks.

## Technical Skills

- **Languages:** Python, Java, C, C++, HTML/CSS, JavaScript, SQL, Go, Bash/Shell Scripting
- **Databases:** PostgreSQL, MongoDB (NoSQL), Amazon S3, DynamoDB
- **Tools & Technologies/Frameworks:** Spring Boot, REST APIs, Postman, Docker, Kubernetes, Jenkins CI/CD, AWS, Azure, GCP, Flask, ReactJS, Git (Version Control), JIRA, Linux/Unix
- **Skills:** Fullstack Development, Backend Development, System Design, Microservices, UI/UX