

# SATYA KAMALA IMMIDISSETTY

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## Education

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**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

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**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

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**GrubDash** | *Typescript, Python, JavaScript, CSS, AWS* [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** | *Python, HTML, MediaPipe, Keras, openCV, Google SpeechRecognition, Multi-threading, Accessibility* [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

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- **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