

Pranav Manglani

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EDUCATION

University of Florida | *Master of Science in Computer Science* Aug '23 – May '25
Coursework: Advanced Data Structures, Distributed Operating Systems, Machine Learning CGPA: 3.8/4
University of Mumbai | *Bachelor of Engineering in Computer Engineering* Aug '15 – May '19
Coursework: Analysis of Algorithms, Object Oriented Programming, Computer Networks CGPA: 8.2/10

EXPERIENCE

Full Stack Software Engineer Mar '23 – Jun '23

Gramhal Foundation | *Flask, Pandas, AWS, PostgreSQL, HTML, CSS, JS, Chatbot Development*

- Led the autonomous development of the backend infrastructure for 'Bolbhav Plus', comprising **API design, database modeling, data pipelines, and analytics tracking**; empowered **14,000+** farmers in **2 weeks**.
- Engineered and launched a **full-stack solution** that **reduced user onboarding time by 2.5 minutes**.
- This enhanced UX and **decreased user drop-off rate by 32%** by reverse-geocoding farmer's geo-location.
- Streamlined and automated Bolbhav Plus subscription processes by **developing 5+ APIs** and **creating database models**; this enabled **700+** farmers to easily manage and track their subscriptions within 2 weeks.

Software Engineer (Backend), Growth Oct '21 – Oct '22

Lokal (YC S19) | *Django, Celery, AWS, PostgreSQL, Redis, Zookeeper, Elasticsearch, Kafka*

- Optimized the most used API ('News Feed API'), by reducing the load on the database using **Elasticsearch as primary source** for serving data. Achieved **80% reduction in latency**, with response times of **less than 50 ms**.
- Redesigned 'User Search' feature **to reduce latency by 95%** by re-purposing Elasticsearch setup.
- Led the end-to-end launch of a Referral System, that **attracted 11000+ application installs** in 1 week. Tasks included Database modeling, API development, UI implementation, Payments integration, and Analytics.
- Increased user retention by 7%** by developing **10+ highly available, high throughput, and low latency APIs** to make UI and navigation in the application configurable from the backend.
- Set up an **A/B test framework to put 10 million active users** in variants and gradually roll out above feature.

Senior Analyst Jul '19 – May '21

Deutsche Bank | *Java, Spring Boot, Oracle, Docker, Kubernetes, Jenkins, Junit, Mockito, Agile*

- Collaborated on the enhancement of SpringBoot APIs, enabling frictionless fund settlement **across 50+ branches** of the bank; **implemented 15+ features, improving transaction accuracy by 18%**.
- Built a scalable Kafka-based Notification service with **15+ APIs** that sent notifications to external clients.
- Led end-to-end development of an API starter kit that was **leveraged by 5 teams** across the bank to develop production-ready APIs. Won the **2nd prize** at the prestigious 'Bank on Tech' event.

Backend Engineer Intern Jun '17 – Jul '17

Finxera | *Java, SpringBoot, MySQL, Lucene*

- Redesigned and optimized compliance processes by using **Lucene for indexing** the list of clients and Specially Designated Nationals (SDN) provided by OFAC, US Treasury; **reducing processing time by 45%**.


SKILLS

Languages: Python, Java, SQL, JavaScript, HTML, CSS, C, C++

Frameworks / Databases: Django, Flask, Spring Boot, React, PostgreSQL, Oracle, MySQL, Elasticsearch, AngularJS

Developer Tools: AWS (EC2, RDS, Lambda, S3, Cloudfront), Redis, Kafka, RabbitMQ, Jenkins, Kubernetes, Docker

PROJECTS

Diagnosis of Glomerulosclerosis  | *Tensorflow, Keras, Google Colab, Jupyter Notebook* Jan '24 – Present

- Independently researched, developed, and compared ML algorithms - **logistic regression, CNNs, transfer learning** - for classifying microscopic images of Glomeruli (blood vessels in kidney) to detect Glomerulosclerosis.

Red-Black Library  | *Python, Advanced Data Structures* Oct '23 – Nov '23

- Independently developed an efficient library management system that utilized a **Red Black Tree** for maintaining a database of books and a **Binary Min-Heap** for priority-based reservations by patrons.

Sound Map of Bangalore Buses  | *React, Mapbox, Heroku, HTML, CSS, JS* Apr '21 – Sep '21

- Led the development and deployment of an online soundscape (website) that gave users a sensorial experience (via audio recordings, written text, and an interactive city map) of the bus journeys across the city of Bangalore.