

# Anurag Chakraborty

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Software Engineer with 3+ years of experience building cloud-native, full-stack systems using Java, Spring Boot, Next.js, delivering scalable, high-performance applications across distributed environments.

## EDUCATION

### University of Florida

Master of Science, Computer Science (GPA: 3.70 / 4.00)

Gainesville, FL

Aug. 2022 – Dec. 2024

## WORK EXPERIENCE

### IEJL.org

Feb. 2025 – Present

Full-Stack Software Engineer

- Led the development of a full-stack marketplace MVP with **Next.js (TypeScript)**, **Supabase**, and **Tailwind CSS**, enabling **30+ merchants** to onboard and manage tiered discount programs.
- Designed **Supabase/PostgreSQL** schemas with constraints and indexing, ensuring integrity across merchants, coupons, and claims; scaled to support **100K+ coupon codes per merchant**.
- Engineered a user review and rating system with authenticated submissions and aggregate merchant scoring, increasing merchant feedback submissions by **~70% during pilot testing**.
- Implemented coupon workflows with drag-and-drop uploads to **Supabase Storage** and a parsing pipeline; validated scalability at **10K+ claims** with **99% parse success** and **0 job failures**.

### Pivotree

Jul. 2020 – Jun. 2022

Software Engineer

- Architected **microservices-driven e-commerce** order lifecycle modules (drop-ship, dispatch, returns) in **Fluent OMS** with **Spring Boot (Java)** and **AWS**, reducing checkout latency and **improving processing speed by ~27%**.
- Spearheaded the transition of order processing and payment modules from **REST** to **GraphQL**, reducing API response times and **improving throughput by 64%**.
- Automated order recovery by implementing **Python scripts** to re-trigger failed orders in the pipeline, **reducing manual intervention by 95%**, **cutting costs** due to failed orders by over **€120,000 monthly**.
- Enhanced **API throughput by 70%** during peak sales events through **JMeter load testing** and targeted performance tuning in collaboration with the performance team.
- Mentored a 10-member team** on Fluent OMS architecture and documentation best practices, **reducing onboarding time by 30%** and **improving delivery efficiency by 20%**.

Software Engineer Intern

Jan. 2020 – Jun. 2020

- Developed **secure authentication flows** (sign-in, password reset) with Django, supporting 50K+ users with zero downtime.
- Programmed **REST APIs** with Django REST Framework, integrating **JIRA** and **GitLab APIs** to deliver automated reporting dashboards for **40+ cross-functional users**.
- Containerized services with **Docker** and deployed on **Kubernetes**, reducing release rollout time to **under 2 hours**.

## PROJECTS

### Real-Time Chat Application / SpringBoot, React, PostgreSQL ([GitHub](#))

Aug. 2024 – Sept. 2024

- Engineered a full-stack chat platform with **Spring Boot** and **React**, featuring **JWT-secured authentication**, **WebSocket-based real-time messaging**, and **Flyway-managed PostgreSQL** persistence.
- Implemented real-time group chats and read receipts, designing relational schemas and validating integrity with **200+ demo users** and **1K+ messages** to ensure reliable migrations and efficient querying.

### Auto-Scaling Load Balancer / Kubernetes, Python, Linux stress-ng ([GitHub](#))

Nov. 2023 – Dec. 2023

- Developed a **load-balancing** system using a master/worker model in a **Kubernetes cluster**, simulating workloads with **Linux stress-ng** and configuring **auto-scaling** triggers at **80% CPU** utilization based on **Kubernetes Metrics API** data for adaptive scaling.
- Evaluated cluster scalability under varying loads, observing consistent response-time improvements of **~25 % after auto-scaling** activation.

## TECHNICAL SKILLS

- Languages:** Java, Python, JavaScript, TypeScript, SQL
- Frameworks & Libraries:** Spring Boot, Next.js, React.js, TailwindCSS, Django
- Databases:** MySQL, PostgreSQL, Supabase
- Cloud & DevOps:** AWS (EC2, Lambda, S3), Docker, Kubernetes, CI/CD Pipelines (Jenkins)
- Tools & Platforms:** Git, JIRA, Maven, Postman, JMeter, Junit, Linux, VS Code, Eclipse, IntelliJ
- Software Development Practices:** Microservices, Unit Testing, Test Driven Development (TDD), REST APIs, GraphQL, Agile/Scrum, Object-Oriented Programming (OOP), RDBMS