Anurag Chakraborty

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EDUCATION

University of Florida   **Gainesville, FL**
Master of Science, Computer Science (GPA: 3.70 / 4.00)   *Aug. 2022 – Dec. 2024*

WORK EXPERIENCE

IEJL.org   *Feb. 2025 – Present*
Full-Stack Software Engineer

- Delivered 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 **E-commerce order lifecycle modules** (drop-ship, dispatch, returns) in **Fluent OMS** with **Spring Boot** 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 from days to **under 2 hours**.

PROJECTS

Fault-Tolerant Distributed Bitcoin Miner   *Aug. 2022 – Sept. 2022*

- Created a fault-tolerant distributed bitcoin mining system based on Erlang actor model where **1000+ Erlang actors** were deployed across client nodes in a master/slave model, hashing millions of Bitcoin strings with **SHA256** for **efficient parallel processing**.

Auto-Scaling Load Balancer in K8 Cluster   *Nov. 2023 – Dec. 2023*

- Built a **load balancer** in a **Kubernetes cluster** with a master/worker model, using Linux stress-ng stressors on nodes. Configured **manual 85% cluster CPU utilization caps** and enabled **auto-scaling** of nodes based on CPU utilization for optimized performance.

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, Linux, VS Code, Eclipse, IntelliJ
- **Software Development Practices:** Microservices, Junit Testing, REST APIs, GraphQL, Agile/Scrum, Object-Oriented Programming (OOP), RDBMS