Chakravarthi Nukala

Software Engineer | Django · React · AWS | System Design

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PROFESSIONAL SUMMARY

Software Engineer with **4 years** of experience building authentication workflows, data processing pipelines, and API-driven systems in financial and enterprise environments. Delivered JWT/RBAC-secured services, modular REST endpoints, and backend workflows supporting **10K+ transactions** per day. Worked with Python, React, AWS, and CI/CD tools to support deployment reliability, schema design, and low-level service integration on cloud-based infrastructure.

TECHNICAL SKILLS

Languages & Frameworks: Python, JavaScript (ES6+), Django, Django REST Framework, FastAPI, React.js, Redux, Bootstrap
API & Integration: RESTful APIs, GraphQL, OpenAPI/Swagger, JWT, RBAC, API Gateway, Microservices, Apache Kafka
Cloud & DevOps: AWS (EC2, Lambda, RDS, S3, CodePipeline, CloudWatch), Docker, Jenkins, CI/CD Pipelines
Databases: PostgreSQL, MySQL, SQLite, Redis, DynamoDB, Apache Kafka
Testing & Monitoring: PyTest, UnitTest, Postman, Sentry, AWS CloudWatch
Core Engineering Skills: Data Structures & Algorithms, Low-Level Design (LLD), OOP, Git, GitHub, Jira

PROFESSIONAL EXPERIENCE

Software Engineer, *Goldman Sachs* | Remote, USA   Aug 2024 – Present

- Engineered distributed backend services using **FastAPI**, **PostgreSQL**, and **microservices** to support onboarding, KYC, and loan processing, handling **10K+** secure financial **transactions/day**
- Led internal **API governance** reviews across engineering, compliance, and partner teams, reducing integration failures in regulated deployments by **40**%
- Designed partitioned reporting **schemas** and **data access policies**, improving accuracy of **audit exports** and reducing **schema conflicts** by **60%** during monthly reconciliation cycles
- Built multi-layered authentication logic with **JWT**, **RBAC**, and audit-compliant session tracking, decreasing **UAT login errors** by **80%** and enabling **PCI-DSS compliance**
- Refactored batch task execution pipelines using **Celery**, **Kafka**, and **Redis**, reducing nightly **job failures** by **70%** and improving data export consistency
- Implemented release validation gates using **AWS CodePipeline**, **Docker**, and **Jenkins**, cutting **staging** deployment failures by **60%** and increasing **QA/UAT rollout stability**

Software Engineer, *Capgemini* | Hyderabad, India   Oct 2020 – Jun 2023

- Delivered modular **Django** components for an internal enterprise finance platform, automating task flows and supporting **20K+** internal user transactions
- Configured **JWT**-based session authentication and **RBAC** decorators, reducing unauthorized dashboard access by **90%** and supporting **audit-traceable logins**
- Reduced **API latency** by **~30%** by introducing **Redis caching** high-traffic endpoints, improving dashboard **load times**
- Streamlined **CI workflows** using **Jenkins**, **Docker**, and **AWS EC2**, enabling **daily QA builds** and sustaining **90%+** automated test coverage with **PyTest** and **Postman**
- Implemented **log forwarding** and **alert escalation** workflows using **CloudWatch** and **Sentry**, reducing incident response time and supporting **99.95%** system uptime
- Facilitated **Agile sprint** planning, daily stand-ups, and retrospectives while **mentoring** and onboarding **3 junior developers** through code reviews and training on Django and AWS, accelerating team ramp-up by **20%**

TECHNICAL PROJECTS

Job Application Tracker | Full-Stack Project   May 2025 - Present

- Architected a full-stack **job tracker** using **Django**, **DRF**, **PostgreSQL**, and **React**, with **100% route protection** via **JWT** and **React guards**, **persistent session tokens** for **admin access**, and **8+ modular CRUD APIs** powering job workflows

System Design Projects| LLD – OOP & SOLID   Apr 2025 – Present

- Authored backend systems for **Library** and **Parking Lot management** from scratch using **Python**, **OOP**, and **SOLID principles**, redesigning **500+ lines** into **modular services** and improving **code clarity by 40%** through **abstraction** and **real-world workflow simulation**

EDUCATION

Master of Science in Computer Technology, *Eastern Illinois University* | Charleston, IL | GPA:3.70   Aug 2023 - May 2025
Relevant Coursework: Cloud Computing, Database Security and Reliability, Computer Networking, Web Technologies, Advanced Database Technology