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## Work Experience

**Georgia Department of Public Health @GSU** — **Atlanta, Georgia**
*Graduate Assistant Software Engineer* — Sep 2024 – Present

- Transformed **healthcare data assessment system**, reducing turnaround time from **5 days** to **24 hours (80% faster)** using **React.js**, **NPM**, **HTML5**, **CSS3**, and **JavaScript** frontend with **Java, Spring Boot, Apache Flink** microservices, enabling real-time public health decision-making during emergencies.
- Built event-driven microservices architecture with **Apache Kafka** that streamlined communication between systems, cutting data integration errors by **60%** and enabling seamless processing of **1,000+** health records daily for **10K+** Georgia residents.
- Designed **HIPAA**-compliant data architecture using AWS **RDS Aurora PostgreSQL** and implemented secure **RESTful APIs** using **Postman** and **Swagger**. Optimized **SQL** schemas, indexing and stored procedures, improving database performance by **30%** while ensuring regulatory compliance.
- Established resilient AWS infrastructure with **EC2** and **S3** that maintained **99.9% uptime** during public health emergencies. Reduced incident resolution time by **45%** through custom **CloudWatch** monitoring dashboards and **SES** alerting.
- Accelerated development cycles by **65%** using **Git** for version control, **Maven** for dependency management. Implemented test-driven development with **Junit** and **Jest**, achieving **85%** code coverage and reducing critical bugs by **70%** in production. Used **JBoss EAP** while crafting custom **Linux Shell Scripts** for system monitoring and maintenance. Maintained **99.9% system uptime** while ensuring seamless business-technical alignment through **JIRA & Confluence**.

**OGMS Labs @GSU** — **Atlanta, Georgia**
*Full stack Developer* — Aug 2023 – Aug 2024

- Spearheaded design and development a responsive, isomorphic computer science portal, employing **React, Node.js, Python,** and **PostgreSQL** to rebuild website from scratch, replacing legacy **PHP** version.
- Integrated **Swagger** for seamless **API** integration, restructuring admission and funding processes which led to **significant 30% reduction in processing time** compared to the legacy **PHP** and **SQL** backend.
- Designed, coded, and rigorously tested **HTML5, CSS3,** and **React.js** components, ensuring adherence to accessibility standards and cross-browser compatibility across 5+ major browsers. Collaborated closely with backend team applied **DevOps** methodologies to seamlessly integrate frontend components with **Python, Flask**, and **Postgres** system resulting in a 40% reduction in page load time. Utilized **React-Router** to transform website into a Single Page Application (SPA), refining user experience. Established comprehensive logging pipeline using **ELK Stack** to capture user journey analytics and performance.
- Employed **React JS Flux** architecture to organize data flow and state changes within application. Utilized **React memo** for preventing unnecessary re-renders, resulting in **25% memory optimization** and eliminating memory leaks across the SPA lifecycle which lead to 50000+ page views. Extensively used **Playwright** for end-to-end testing and integrated test results with **Kibana** for automated testing analytics and failure pattern identification before deploying the application.

**Silicon Bridge Technologies** — **Bengaluru, India**
*Software Engineer* — Aug 2022 – May 2023

- Built dynamic client interfaces with **Java** and developed Controller Servlets to process HTTP requests from **Java Servlet** pages, enabling seamless **SPA** functionality.
- Pioneered full-stack development with **Java 8 microservices** and dynamic **React.js, JavaScript** frontends, structuring a scalable system, slashed deployment complexity by 40% while optimizing application performance and evaluated by **JUNIT** and **Unit Testing**.
- Optimized **PostgreSQL** database, implementing **database indexing** & **query tuning**, improving **query performance** by **40%**. Developed **Linux-based shell scripts** to automate database monitoring and maintenance tasks.
- Extensively used **GIT** for version controlling and regularly pushed the Code to GitHub. Used **JIRA** as a bug tracking system to track and maintain history of bugs. Worked with J**enkins** to implement **CI/CD** process. Worked with **Google Cloud** Deploy was used for streamlined deployments and Deployment Manager for infrastructure as code.

## Projects

**Intelligent PDF Query System using RAG | Capstone Project |** *Python Flask, React, Streamlit, FAISS, OpenAI, PostgreSQL, AWS, Kotlin*

- Built production-ready PDF intelligence application using **Retrieval-Augmented Generation** (RAG) with React frontend, **Python Flask** backend, **OpenAI GPT-3.5 Turbo API**, and Hugging Face all-MiniLM-L6-v2 embeddings, deployed on **AWS ECS** with containerized microservices.
- Implemented FAISS vector store for semantic search, **PostgreSQL** for conversation history, AWS S3 for PDF storage with automated preprocessing pipeline, enabling complex document queries through React interface with real-time responses.
- Established enterprise infrastructure with **AWS CloudWatch** monitoring, **Jenkins CI/CD** pipelines, Docker containerization, and AWS ECS orchestration, achieving 99.9% uptime reliability and efficient knowledge retrieval.

**Online Banking Application|** *Java, Spring Boot, Spring Security, Kotlin, Grafana, Node.js, React, Kafka, Docker, CI/CD, Postgres SQL, Git, Selenium*

- Built containerized banking platform with Microservices architecture, achieving 30% code efficiency using **Spring Boot, Node.js and JWT, RBAC security.** Engineered **SWIFT** payments with **Kafka** streaming, enabling 40% faster transactions and scalability. Designed custom **Grafana** panels to track real-time SWIFT payment success rates, **fraud detection** metrics, and compliance reporting, enabling executive-level visibility into banking operations.
- Engineered a fault-tolerant messaging system incorporating containerized **Kafka** and **Postgres SQL,** featuring automated health checks, transaction logging, and data replication to maintain 24/7 system availability and reliability. Used **GitHub** for version control and improved development cycles by 67%. Integrated **Selenium** for **cross-bowser testing** and scalable web automation.

## Skills

**Programming & Development**: Java, Python, C/C#/C++, .NET, JavaScript, TypeScript, Bootstrap, HTML, CSS, React.js, Angular, Spring Boot, Node.js, Webpack, Restful APIs, Flask, Django, Full stack, System Design, Debugging, Troubleshooting, GO Lang, Kotlin.
**Cloud & Infrastructure & AI:** AWS (EC2, S3, Lambda, Aurora, CloudWatch), Docker, CI/CD, Jenkins, Distributed Systems, Kafka, Message Queuing, Scalability, Performance Engineering, Resource Management, Job Scheduling, Storage Systems, Linux, Shell Scripting, Open AI, RAG, LLMs.
**Database & Tools:** SQL, MySQL, PostgreSQL, NoSQL, Database Design, Git, GitHub, JIRA, Confluence, Agile/Scrum, IntelliJ IDE, VS Code, Postman, Swagger.
**Testing, Deployment & AI:** Junit, JBoss, Unit Testing, TestNG, CI/CD, Jenkins, GitHub, Git, Bitbucket, Playwright.

## Certifications

- AWS Certified Developer Associate
- Microsoft Azure Developer Associate
- AWS certified Solutions Architect
- Architecting with Google Cloud Compute Engine

## Education

**Georgia State University |** Master of Sciences (MS) in Computer Science **(**CGPA: 4.0/4.0**)** — Aug 2023 – Aug 2025

- **Coursework:** Software Engineering, **Human-Computer Interaction**, Database Systems, Data Security, Distributed Systems, Advanced NLP.