







-  **Red Hat – Full Stack Senior Software Engineer** **Nov 2021 – Present**
- Developed middleware, integrations, and backend infrastructure for Red Hat’s customer support systems.
 - Designed and built a Java microservice syncing support cases between Microsoft Case Exchange and Red Hat’s Salesforce Support Instance for Red Hat Azure Products.
 - Designed and built a Java microservice enabling case collaboration across accounts via the Red Hat customer portal.
 - Led Salesforce (SFDC) development on Red Hat Salesforce support instance: Apex, SOQL, REST APIs, SOAP APIs, web services, and system maintenance.
 - Used MySQL as the primary database for case tracking and synchronization across systems.
 - Implemented a polling service to check for new cases from Microsoft Case Exchange.
 - Developed message-based communication using ActiveMQ and a dead-letter channel for retries.
 - Utilized Apache Camel to define routing for bidirectional integration between Salesforce and Microsoft Case Exchange, handling severity changes, comments, case openings, and closures.
 - Deployed containerized versions of Java Spring Boot services using GitLab CI/CD and OpenShift.
 - Managed bug fixes, performance optimizations, and enhancements to improve customer support operations

-  **NIWC, Naval Information Warfare Center - Software Engineer** *TS/SCI Security Clearance* **May 2018 – Nov 2021**
- Led R&D efforts, including rapid prototyping and technical proposals.
 - Built and maintained multiple ETL pipelines in Clojure/Java for our data analytics service using NLP libraries to extract information from unstructured text-based data sources.
 - Used BERT Transformer models for NER to improve information extraction
 - Built containerized data science labs using Docker and ETL pipelines in Clojure/Java.
 - Implemented A/B testing for machine learning models on our generalized recommender system. Built methods to compute the AUC score, f1 score, precision, and recall for information retrieval metrics.
 - Ran IA scans using static code analysis tools to identify and fix vulnerabilities in project applications.
 - Designed Java APIs for analytics services and optimized CI/CD pipelines with Jenkins
 - Developed software for disconnected, limited-bandwidth environments.

-  **Freelance Work** **July 2018 – Present**
- Built and maintained WordPress sites and custom sites for various clients
 - Built an AI agent (Azure OpenAI, VectorSearch) to process datasets (PDFs, spreadsheets, Word documents) and generate prioritized, filtered reports based on user queries.

-  **Center for Digital Humanities, University of South Carolina Intern** **September 2016 – April 2018**
-  **Naval Information Warfare Center Security Engineer, Data Engineer, Software Engineer Intern** **May 2015 – 2017**
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EDUCATION & CERTIFICATES

-  **UNIVERSITY OF SOUTH CAROLINA, SCHOOL OF ENGINEERING AND COMPUTING** **May 2014 – 2018**
Bachelor of Science in Computer Science
- Machine Learning** by Stanford University offered through Coursera **July 2021**

PROJECTS

- Fitbois Bot** - A fitness telegram bot written in Golang (previously Java) with a database (mariaDB)
- QuerySense** - Classifier using LLMs for customer problems into predefined categories for better support (Red Hack Day)
- Taurus** - Documentation generator using LLMs (Red Hat Hackathon)
- clj-gdrive-downloader** - (open source) Minimal clojure utility to download shared compressed files from Google Drive.

SKILLS

- LANGUAGES & FRAMEWORKS** – Java, Spring, Python, FastAPI, Golang, React, Next.JS, Typescript, Tailwind, Shadcn
- TOOLS & DATABASES** – JetBrains IntelliJ, Neovim, Git, MySQL, Mongo
- CLOUD COMPUTING & CONTAINERIZATION** – Amazon Web Services, Google Cloud Platform, Azure, Docker & Compose, Podman, Openshift
- AI** - Applied LLMs, LLM Inference Endpoints, Vector databases (chroma, pinecone), RAG Systems