

DANE UKKEN

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SKILLS

Languages: Java, Javascript, Python, C#, SQL, C/C++, Shell scripting

Backend: Spring Boot, Spring Webflux, .NET Core, Flask, PySpark, RabbitMq

Frontend: React, Redux, Next.js, HTML, Tailwind CSS, Jest, Enzyme

Databases: SQL server, PostgreSQL, MySQL, ElasticSearch, MongoDB

DevOps and Cloud Platforms: Docker, AWS, GitHub Actions, Jenkins, Kubernetes, Cloudflare Workers

WORK EXPERIENCE

Software Developer - Pushpay - Allen, TX

Jan 2025 - July 2025

Tech stack: **Typescript, Java, Vitest, Cloudflare Workers, Spring Boot, Spring Webflux, GCP**

- Engineered and maintained highly scalable, cloud-based video streaming solutions, leveraging Cloudflare Workers to optimize content delivery, reducing latency and enhancing user experience across diverse geographic regions.
- Optimized video archiving by developing a multi-cloud solution that eliminated single-provider risk and improved data retrieval time by 20%.
- Refactored a critical Cloudflare worker, introducing dependency injection and modern design patterns to achieve a 30% reduction in P99 latency.

Senior Software Developer - Holiday Channel LLC - Allen, TX

Aug 2024 - Dec 2024

Tech stack: **TypeScript, LangChain, OpenAI API, Node.js, Express, PostgreSQL, MongoDB, AWS, React**

- Lead the replacement of a legacy WordPress site with a modern holiday content platform, by building a scalable React app supported by a decoupled microservices architecture and secured with OAuth 2.0.
- Architected an AI chatbot with a RAG pipeline that successfully resolved user queries, achieving a 30% click-through rate (CTR) to relevant holiday pages.
- Integrated Strapi headless CMS to empower the content team with self-service capabilities, creating streamlined workflows for publishing holiday articles and managing media assets stored on AWS S3.

Software Developer Intern - Pushpay - Allen, TX

May 2023 - Aug 2023

Tech stack: **Java, Spring Boot, React JS, Redux, Emotion CSS, Typescript, Javascript, Playwright, Vitest, Docker**

- Drove full-stack development for the platform by creating robust Spring Boot APIs, adding reusable frontend components for a new audio download feature, and increasing test coverage with Playwright integration tests.

Software Developer - Fidelity Investments - Chennai, India

July 2019 - July 2022

Tech stack: **Java, Spring Boot, React JS, Javascript, Python, ElasticSearch, SQL Server, HTML5, Gradle, Docker**

- Engineered full-stack microservice applications, pairing scalable Java REST APIs with dynamic React UIs, and integrated them into a robust Jenkins CI/CD pipeline to automate builds and deployments, significantly improving operational excellence.
- Streamlined the ETL pipeline by optimizing complex SQL queries and implementing incremental data retrieval with Logstash, reducing runtime by 55% for daily loads of over 100M records.
- Developed a proxy microservice in Spring Boot to handle all customer ticket creation logic, migrating the process from a legacy system to Salesforce and boosting customer support team efficiency by an estimated 30%.
- Developed and deployed an AI-driven lead conversion algorithm, leveraging Naive Bayes to predict and prioritize high-potential leads for financial advisors with 80% accuracy.

Associate Software Developer - Fidelity Investments - Chennai, India

July 2018 - July 2019

Tech stack: **Java, Spring Boot, React JS, ElasticSearch, SQL Server, CSS**

- Enhanced a key analytics platform by adding a new interactive chart type, which involved building new Spring Boot REST APIs, ingesting data from SQL into Elasticsearch, and implementing the visualization with React.
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PROJECTS

- Secure It - Encrypted File System ([Git](#)) - Java

Jan 2024

 - Developed an encrypted file system in Java, implementing robust security measures for data protection. Implemented robust security measures using **AES encryption** with Counter (CTR) mode, HMAC for data integrity, and secure password hashing to ensure data protection and authenticity.
- Planet - Event Planner ([Git](#)) - React, Next.js, Redux, Passport.js, MongoDB, Jest, Docker

Dec 2023

 - Implemented a **Next.js event planning application with Passport.js**, integrating role-based authentication to support organizer-driven event creation, user-specific actions, and enhanced attendee engagement.
- Medical Named Entity Recognition - BERT ([Git](#)) - Python, PyTorch

May 2023

 - Developed a Medical NER [model](#) using pre-trained BERT and ALBERT models. Achieved an F1-score of 0.8726, by fine-tuning BERT on the i2b2/n2c2 dataset, containing annotated clinical notes.
- Facial Expression Recognition ([Git](#)) - Python, Keras, Jupyter, OpenCV

Jan 2024

 - Benchmarked the performance of popular pre-trained models like VGG16, ResNet50, on the FER2013 dataset. Also experimented with preprocessing strategies including face detection, alignment using OpenCV libraries to improve accuracy.
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EDUCATION

- University of Texas, Dallas

Aug 2022 - May 2024

Master of Science in Computer Science (**MS in CS**)

GPA: **3.75**

Courses: Analysis of Algorithms, Machine Learning, Operating Systems, Big Data
- National Institute of Technology, Trichy

Aug 2014 - May 2018

Bachelor's in Electrical and Electronics Engineering (**BTech**)