

James Kocak

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SUMMARY

Software Engineer skilled in building scalable full-stack web applications and data-driven systems using React, Python, Java, and SQL. Strong foundation in RESTful API design and database optimization, delivering solutions for large-scale data and real-time functionality.

EDUCATION

North Carolina State University | Raleigh, NC

May 2025

Bachelor of Science in Computer Science, Magna Cum Laude

GPA: 3.6/4.0

Relevant Courses: Software Engineering, Data Structures & Algorithms, Database Management Systems, Intro to Artificial Intelligence

Extracurriculars: NCSU Hackathon Participant

SKILLS

Programming Languages & Frameworks: Java, Python, SQL, JavaScript, HTML, CSS, React, Django, Spring Boot

Databases & Software Design Practices: MySQL, PostgreSQL, Performance Optimization, Unit Testing, RESTful API Design

Industry-Specific Tools: Git/GitHub, Jenkins, GitHub Actions, Docker, VSCode, Linux

Soft Skills: Technical Writing, Agile Methodologies, Problem-Solving, Communication & Collaboration

Professional Certificates: Databricks Certified Data Engineer Associate, Microsoft Azure AI Essentials Professional Certificate

PROJECTS

PoppyCox Kitchen Display System | *Small Business Solution*

May 2025 - Present

GitHub Repository: <https://github.com/Jokocak/PoppyCoxKDS>

- Designing a full-stack kitchen display system, integrating Clover API to display orders placed in real-time, reducing order errors by 30% and improving kitchen efficiency
- Implementing a scalable backend using Expo/React Native, SQLite, Django, and MySQL improving order processing speed by 20%
- Created a Project Design Document (PDD) to provide structured project planning and mentored two team members in Agile/Scrum practices, improving project delivery efficiency by 15% and enhancing team productivity

Coffee Maker Full-Stack Project | *Software Engineering*

January 2024 - April 2024

GitHub Repository: <https://github.com/Jokocak/CoffeeMaker>

- Formulated CRUD operations for a web application using Spring Boot and AngularJS to support scalable user management, enabling 100+ concurrent users to manage users, orders, and recipes with seamless performance
- Optimized a MySQL database handling 100,000+ records using SQL and Database Optimization to address slow performance, improving query speed by 40% and documenting the schema for team collaboration
- Developed RESTful APIs with AngularJS and Spring Boot to enable real-time order updates, achieving sub-second latency, and created API documentation using Technical Writing skills to enhance team integration efficiency

Data Product Catalog | *Statistical Analysis System (SAS) Senior Design Project*

January 2025 - April 2025

GitHub Repository: *Repository is Unavailable*

- Built a scalable data pipeline using Python, Django, and PostgreSQL to handle large-scale metadata ingestion, efficiently managing 10,000+ data assets with optimized storage and retrieval within three months
- Engineered a Python algorithm analyzing thousands of records in PostgreSQL to improve data product discovery, achieving sub-minute execution for accurate product match suggestions, enhancing user experience by 20%
- Implemented full CRUD functionality using Django and PostgreSQL for users, data assets, and products to streamline data management, reducing administrative overhead by 25% with efficient operations

WORK EXPERIENCE

Target | Front of Store Attendant

December 2020 - December 2022

- Applied problem-solving skills to optimize task prioritization and streamline workflow, improving operational efficiency by 20%