Efstratios Koulouris

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Emerging Computer Science professional with a strong foundation in software development, data structures, and system design. Experienced in applying academic knowledge to real-world problem-solving through hands-on projects and collaborative teamwork. Recognized for a results-oriented mindset, adaptability, and commitment to continuous learning in dynamic technical environments.

Education

Indiana University – Bachelor of Computer Science

Academic Honors: Dean's List Fall 2022, 2023

Projects

Full-Stack Data Visualization, *Developer, Bloomington, Indiana*   March 2025 - May 2025
Developed a full-stack data visualization app to compare Cristiano Ronaldo's and Lionel Messi's goals per season using Python, Dash, Plotly, and REST APIs. The project was containerized with Docker Compose and integrated real-world sports data to demonstrate the application of distributed systems in a dynamic, interactive dashboard.

Guitar Inventory, *Developer, Bloomington, Indiana*   January 2024 - April 2024
Built a dynamic Guitar Inventory application with a user-friendly interface using HTML, CSS, and JavaScript. Implemented an "Add Guitar" feature for inputting brand, model, year, and price, and developed RESTful APIs to enable smooth data exchange between the front-end and back-end.

Coffee Order, *Developer, Bloomington, Indiana*   January 2024 - April 2024
Designed a coffee ordering system with an intuitive interface that lets users customize their drink selection with various coffee types and condiments. Built RESTful APIs to ensure reliable interaction between the client and server, and implemented back-end functionality in Java to process requests, validate inputs, and manage database transactions.

Skills and Tools

Programming: Java, C, JavaScript, SQL
Applications: Visual Studio Code, IntelliJ IDEA, AWS, Postman, Docker, Kubernetes, Flask, React, MySQL, PostgreSQL, Plotly, Dash

Experience

Bitwise Global Inc. Internship   **Schaumburg , Illinois**
Backend Developer   June 2024 – August 2024
- Develop and maintain backend APIs using Java, Spring Boot, and MySQL
- Design and implement Data Transfer Objects (DTOs) and Entity classes to support scalable API structures
- Test APIs using Postman and JUnit, ensuring functionality and reliability

Indiana University Luddy School of Informatics, Computing, and Engineering   **Bloomington, Indiana**
System Programming with C and Unix Teacher's Assistant   January 2024 – May 2024
- Grade assignments, quizzes, and exams with feedback to students
- Held weekly office hours to provide additional support and assurance to students
- Led lab sessions to address student's questions, clarify concepts, and aid with course material