

DAVID CRIMI

✉ davidcrimi6@gmail.com

in linkedin.com/in/david-crimi/

github.com/CrimiDavid

Education

York University

B.Sc., Hons. Computer Science

August 2024

Toronto, Ontario

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Database Management
- Software Design
- Operating Systems
- Computer Architecture
- Software Requirements
- Software Testing

Experience

Hitachi Rail

Software Analyst Intern

January 2025 – present

Toronto, Ontario

- Developed a high-performance CI/CD pipeline in Jenkins utilizing Docker containerization, achieving a 40% reduction in build execution time.
- Performed systematic troubleshooting and strategic refactoring of critical deployment scripts, substantially improving system stability and operational reliability..
- Authored comprehensive company documentation for Docker container development and build procedures, establishing standardized protocols for the team.

Projects

Impactify | React, Django, PostgreSQL, Docker

October 2024

- Developed the backend for an IoT-based brain health monitoring helmet for contact sports, integrating React for the frontend and Django for the backend to deliver real-time data insights.
- Implemented user session management, coach dashboards, and interactive visualizations of impact data collected from sensors, enhancing decision-making on player safety.
- Won first place overall among 400 participants at Hack the Valley for creating an innovative solution that tracks and improves player safety using real-time impact data.

Six Degrees of Kevin Bacon | Java, Neo4j

July 2024

- Worked in a team to develop a backend Java project, designed to manage actor and movie information using a Neo4j database.
- Personally implemented RESTful API endpoints to handle CRUD (Create, Read, Update, Delete) operations, including a unique feature to compute the shortest path between any actor and Kevin Bacon, demonstrating advanced graph traversal and pathfinding capabilities.

Optimal Uber Finder | React, Flask

January 2024

- Developed a full-stack dynamic web application using React for the frontend, coupled with a Flask-powered backend for efficient data processing and API integration, resulting in an average user cost saving of 30%.
- Employing Uber API and Mapbox API to create a user-friendly platform that will allow users to easily search for the most cost-effective Uber prices based on their location and a specified radius.
- Implemented a geospatial algorithm to divide a user-defined radius into grids, assigning coordinates at each grid's center; utilized Mapbox API to relocate these coordinates to the nearest roads, and integrated with Uber's API to fetch and compare real-time pricing data.

Certifications

AWS Certified Developer Associate | Amazon Web Services

June 2024

- Demonstrated proficiency in developing, deploying, and debugging cloud-based applications using AWS services and best practices for application development.

Meta Backend Developer | Coursera

August 2024

- Completed comprehensive program covering Python, Django, APIs, databases, and version control, emphasizing backend development principles and industry best practices.

Technical Skills

Programming Languages & Libraries: Python, Java, C++, C, HTML/CSS, JavaScript, SQL, NumPy, Pandas, Matplotlib, Scikit-learn

Frameworks & Technologies: Django, FastAPI, React, Flask, Next.js, Linux, Git, JUnit, Amazon Web Services

Databases & DevOps: MySQL, PostgreSQL, MongoDB, Neo4j, GitHub Actions, Jenkins, Docker