

Amir Kemal

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EDUCATION

Dakota State University - Madison, SD

December 2022

B.Sc. in Computer Science GPA: **3.87**

- Relevant Courses: Software Engineering, Machine Learning, Parallel Computing, Data Structures and Algorithms.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, C#, SQL, HTML, CSS, Bash, Assembly, JSON

Frameworks: Unity, React JS, Node.js, Bootstrap, .NET, SpringBoot, other SDK's, Angular, JUnit

Tools: Linux, AWS, Azure, git, Gitlab, Docker, MongoDB, GitHub, PostgreSQL, Visual Studio, IntelliJ IDEA.

EXPERIENCE

Software Engineering Intern

June 2022 -Aug 2022

Midcontinent Communications

Sioux Falls, SD

- Implemented an API utilizing C#, GraphQL and .NET technologies to extract telecommunication tower information, achieving a 30% reduction in data processing time for the company's data engineering team.
- Created an advanced Hosted VoIP API, leveraging C#, SQL, and .NET Framework, to seamlessly interact with a third-party hosted Voice over IP solution, resulting in a 50% reduction in communication latency and a 20% increase in system efficiency.
- Resolved a critical issue with the SharePoint API, preventing the creation of multiple user folders each time an employee signed an agreement, thereby freeing up valuable database space and optimizing system performance by 20%.

Software Developer Intern

June 2021 – Aug 2021

NK Trading

Addis Ababa, Ethiopia

- Worked on agile sprint with the DevOps team on a web-based stock tracking application using Java, Spring Boot, React and SQL. This resulted in a streamlined inventory management system that improved efficiency by 30%.
- Upgraded and refactored 8% of the company's legacy codebase, improving the software's overall performance and user experience. As a result, the software's error rate decreased by 20%.
- Implemented test cases using integration and unit tests to verify the proper functioning of API's.

Software Developer Research | [Research](#)

Sep 2022 – Feb 2023

Dakota State University

Madison, SD

- Created a Python Software using the Twitter API to stream real-time tweets and extract suspicious links for research. Resulting in 90% reduction in the data processing time for the research.
- Developed and deployed a Python program that utilized the Stream Tweet app to identify non-existent hyperlinks, automatically generating domains and tracking click traffic. Providing crucial insights for demonstrating cyber threats in the research project.

PROJECTS

Research Backend and API

Oct 2022

- Built the backend of a research app utilizing Javascript, Node.js and MongoDB, providing seamless access and management of research data within academic institutions.
- Established API that allows clients to access ongoing research and comprehensive research information enabling them to get real-time research updates and in-depth research data.

Car Rental Management System

May 2022

- Developed a fully functional object-oriented programming C#, ASP.NET web application that was integrated with MSSQL. The application was specifically designed to facilitate car rentals among university students in a seamless and efficient manner.
- From posting their own cars to renting vehicles, setting prices, negotiating deals, and securing reservations, the web application offers users an all-encompassing platform to indulge in their automotive needs.

Simple Jobs

Nov 2021

- Created a dynamic job portal web app utilizing C#, Blazor and SQL.
- The application was created with the specific purpose of making job searching and job posting easy

HONORS AND AWARDS

Student Research Initiative Grant | Kappa Sigma Iota (KSI) Honor Society | DSU Champion Scholarship