

Salah Mohamed

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EDUCATION

University of Minnesota – Minneapolis, MN

Expected Graduation Date: May 2026

Bachelor of Science in Computer Science and Data Science, GPA: 3.41

Relevant Coursework: Algorithms and Data Structures (IP), Calculus I-III, Advanced Programming Principles, Regression and Statistical Computing, Computational Linear Algebra, Machine Architecture and Organization

Honors & Awards: Dean's List (Spring 2023)

SKILLS & CERTIFICATIONS

- **Skills:** Java, C/C++, Python, x86-64 Assembly, R, OCaml, Jira, Kanban, Git, GitHub, AWS Lambda
- **Certifications:** CodePath Intermediate Technical Interview Prep (Jun 2024 - Aug 2024)

EXPERIENCE

Boston Scientific - IT Digital Marketing Intern | Arden Hills, MN

Jun 2022 – Aug 2022

- Collaborated with the digital marketing team to strategize, plan, and execute website development projects for a major medical device manufacturer, aimed at enhancing user experience and achieving business goals.
- Applied advanced data analysis techniques on VIP Data to project future costs, resulting in a 33% increase in net sales.
- Leveraged skills in Jira for project management and tracking throughout the analysis process.
- Suggested strategies for integration of AEM Next-Gen Architecture by utilizing Jira and Kanban, enhancing search engine capabilities with COVEO AI.

Accenture - Summer Intern | Minneapolis, MN

Jun 2021 – Aug 2021

- Participated in a 6-week summer internship emphasizing business culture, inclusion/diversity and skills development, with a focus on professionalism in remote environments through emerging technologies and problem-solving.
- Collaborated with other interns to present a comprehensive biomedical programming presentation, successfully engaging executives and resulting in valuable networking opportunities and connections with Accenture executives
- Actively participated in workshops on business data analytics trends, increasing efficiency by 30% by applying the insights gained.

PROJECTS

Stock Price Predictor - Lead Developer

[View Project](#) | May 2024 - Jun 2024

- Developed a predictive model for historical NASDAQ stock prices using training and validation with Python, applying Pandas for data manipulation, NumPy for numerical computations, and Matplotlib for data visualization.
- Applied Linear Regression to predict future stock closing prices, resulting in a precise prediction within a 1-3% margin relative to adjusted closing prices.
- Evaluated predictor accuracy using error methods such as MSPE, MAE, and R-Squared using Scikit-Learn.

Dynamic Memory Allocator - Developer

[View Project](#) | Apr 2024 - May 2024

- Contributed as an algorithm developer within a team, optimizing memory allocation techniques for system stability.
- Implemented efficient memory allocation using doubly linked lists in C, verified by Valgrind testing for memory leak detections and optimizations. This approach led to a 20% improvement in software performance.
- Resolved heap memory allocation bugs, ensuring stable program operation through rigorous testing and debugging.

Spell Check Program - Developer

[View Project](#) | Jan 2024 - Mar 2024

- Engineered the hash function for lookup and insertion optimizations, improving overall performance and efficiency.
- Accomplished a functional dictionary as measured by optimization of around 40-50% by doing hash table implementation with hash collision detection in C, Valgrind, and data structures like variations of linked lists.
- Deployed an interactive command-line interface in C to improve data lookup, insertion and organization capabilities.

LEADERSHIP & AFFILIATIONS

[CodePath](#) | Community Member | Remote

Jun 2024 – Aug 2024

[Management Leadership of Tomorrow](#) | Career Prep Fellow | Remote

Dec 2023 – Present

[ColorStack](#) | Fellow | Remote

Nov 2023 – Present