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my portfolio

Sarah Bateman

JUNIOR SOFTWARE ENGINEER

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EDUCATION

Master of Software Development

University of Utah

Projected Graduation: December 2024 GPA: 4.0

16-month Graduate program designed to produce proficient full-stack software engineers.

- Software Development Club

Bachelor of Hospitality Management

Utah Valley University

January 2019 - May 2021 GPA: 3.93

Four-year degree in Hospitality and Business Administration (expedited).

- Statistics Tutor

SKILLS

Java, C++, JavaScript, Python, C#, HTML, CSS, SFML, JavaFX, QT, JUnit, Catch2, SQL, GitHub

PROJECTS

DNS Resolver - Custom Domain Name System resolver. Supports a cache to keep track of recent searches, forwards unknown queries to Google DNS. Java

TLS - Implements a simplified TLS protocol, focusing on secure communication using RSA, AES-CBC, HMAC, and Diffie-Hellman key exchange. Java

MSDscript - Interpreter supports dynamic parsing, evaluation, and printing of user input. C++, Catch2 Testing

Chat Room - Multithreaded server enables real-time chat, file serving, and WebSocket communication for interactive web applications. Java, JavaScript, HTML, CSS

Brick Breaker - Game implements dynamic changes with real-time collision detection and responsive graphics rendering. C++, SFML

PROFESSIONAL EXPERIENCE

Headstarter

July 2024 - Present

Software Engineering Fellow

- Intensive 2-month program featuring 7 core projects focused on modern AI integration
- Interacted with OpenAI's API for projects such as an autonomous customer support bot
- Comprehensive interview preparation with real-time feedback and AI-driven analysis

Edison House SLC

April 2023 - Present

Fine Dining Server

- Current part-time employment while pursuing a Master's degree in Software Development
- Joined the company five months after opening - shared insights from Hospitality Management studies to enhance service standards
- Food and beverage service, member recognition, execution of events

Marriott Vacations Worldwide

October 2021 - March 2023

Front Desk Manager

- Recruited, hired, and onboarded new associates for multiple departments on site
- Created the new standard training manual for Activities and Front Desk departments
- Managed guest issues, resolution, and compensation to ensure positive post-stay feedback (consistently a top performer in employee recognition by guests)