

Aresema Workneh

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Education

- Bachelors of Science in Computer Science - Towson University
- Masters in Computer Science - Morgan State (expected 2025)

Programming Language Skills and Development Environments:

Languages: C++, JavaScript, Java, JSON, Javascript, Python, R, Git, HTML, CSS, Linux TypeScript, PHP, Bash
Tools: Visual Studio Code, Github, Jira, NetBeans, SubLime, IntelliJ
Database: MySQL, SQLAlchemy, MongoDB, SQLite
Web Based: HTML, CSS, SCSS, Bootstrap, Web Api, Node.JS, XML, JSON, WebSocket,
Operating Systems: macOS, Linux, Windows, Unix
Data Science and Machine Learning: NumPy, Pandas, PyTorch, OpenCV
SDLC: Waterfall, Agile (Scrum, Kanban, Lean)

Projects:

Nine Men's Morris AI Board Game

- Used Java and integrated AI methods to implement gameplay logic and decision making.
- Conducted extensive testing and debugging to ensure smooth gameplay and robust AI performance.

Java/Swift Sorority Application

- Used Java/Swift application to facilitate communication and organization within a sorority, integrating user authentication, event scheduling, and task management for efficient management.
- Designed to help sorority members stay organized, and to facilitate smooth communication and collaboration.

Agent-based Model in Python

- Developed a Python simulation model to analyze economic behavior of multiple agents.
- Implemented functions for agent spending, debt repayment, and weekend spending fluctuations.
- Conducted simulations and analyzed agent VIP balances, goods, rent and wage values

Professional Experience:

Technical Analyst

SCB Consulting

Jan 2022 – present

- Developing multi-tier, modularized, componentized and reusable web applications using AngularJs, TypeScript, RxJs, NodeJs, Micro Services.
- Fixed bugs and developed enhancements on existing applications.

Environment: Visual Studio code 2017/2019, Angular, TypeScript, RxJs, HTML, CSS, SCSS, XML, JavaScript, Postman, JSON, microservices, GitLab, Rally

Technical Analyst

United Construction & Restoration

May 2019 – September 2021

- Collaborated with a team of developers to design and implement a state compliance website using React and MongoDB.
- Experienced in analysis and object-oriented programming skills to identify and translate end user needs and requirements into web applications.

Environment: IntelliJ, GitLab, HTML, CSS, MongoDB, JSON, Web API, PowerShell