

# Aresema Workneh

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## Profile Summary:

- 6+ years of software development experience.
- 5+ years of experience in Java, Algorithms and data structures ,Node.js frameworks
- Proficient in Java, Python, C++, React, MongoDB, MySQL, SQLAlchemy, R, Restful API, and Java Swift

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## Programming Language Skills and Development Environments:

**Languages:** C++, JavaScript, Java, JSON, ReactJs, Python, R, Git, HTML, CSS, SCSS, TypeScript, PHP, Bash

**Tools:** Visual Studio Code, Github,, Jira, NetBeans, SubLime, IntelliJ

**Database:** MySQL, SQLAlchemy, MongoDB,

**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)

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## Professional Experience:

### Program Analyst

#### **SCB Consulting**

*Jan 2022 – present*

- Experienced in analysis and object-oriented programming skills to identify and translate end user needs and requirements into web application
- 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, GitLub, Rally

### Project 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.
- Utilized React components to create a responsive and intuitive user interface, enhancing user experience and engagement.
- Integrated MongoDB for efficient data storage and retrieval, optimizing the performance of the website.
- Experienced in analyzing, designing, developing, documenting, testing and deploying Web applications.
- 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

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## Personal 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.

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**Education:**

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- Bachelor of Science in Computer Science – Towson University