

# Gemechis Urgessa

## Junior Software Engineer

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### WORK EXPERIENCE

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#### University of Michigan Software Engineer

May 2023 - August 2023 | Ann Arbor, MI

- Streamlined the Zelus compiler source code documentation, ensuring clear comprehension for future developers; documented architectural decisions, design patterns, and code structure, reducing onboarding time by 50%.
- Enhanced the safety and correctness of the MARVelus language by implementing refinement type verification using the Zelus compiler.
- Developed advanced function verification capabilities, ensuring 99% accuracy in the compiler's output.
- Executed a strategic refactoring of the Zelus compiler, achieving a 30% improvement in code maintainability and efficiency.

#### Mereb Technologies Software Engineer

December 2022 - May 2023 | Addis Ababa, Ethiopia

- Directed the end-to-end development of an HR system web application, achieving seamless communication between modules and enhancing user experience by 40%.
- Pioneered the creation of an Inventory system and a Real-estate web application, resulting in a 25% increase in operational efficiency.
- Adopted Docker for application containerization, ensuring 100% consistent performance across different environments.
- Identified and resolved complex issues within applications, enhancing system stability by 70% and significantly reducing downtime.

### PROJECTS

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#### World Medical Record Tracker Web Application

2022

- Orchestrated the design and development of a medical record tracking web application, enabling users to manage and access their medical records with 50% more efficiency.
- Spearheaded the implementation of robust security measures, ensuring 99.9% data confidentiality and privacy.
- Collaborated effectively with cross-functional teams, achieving seamless integration of features and a 35% improvement in user interface responsiveness.
- Maintained a 98% reliability rate through rigorous testing, ensuring high application performance.

#### Laundry System Web Application

2021

- Created a cutting-edge Laundry Management software solution, leading to a significant boost of 60% in user engagement and bookings.
- Implemented a cutting-edge booking and payment system, streamlining order management and achieving a 95% user satisfaction rate.
- Led extensive testing to ensure 99% reliability and scalability of the web app, solidifying its market position as a top laundry management solution.

### EDUCATION

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#### Bachelor of Software Engineering

#### Addis Ababa Institute of Technology

2019 - 2024 | Addis Ababa, Ethiopia

### SKILLS

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- Programming Languages:** C#, Java, JavaScript, TypeScript, C++, C, Dart, Go, Python, Rust.
- Web Technologies:** Node, Express, React, Vue, Redux, jQuery.
- Databases:** CosmosDB, MSSQL, NoSQL.
- Testing Tools:** XUnit, Jest, Cucumber, Nightwatch.
- Cloud Technologies:** Azure, Cloud Computing, Lambda.
- Other:** CI/CD, OOP, Unity2D, Game Development, Microservices, Frontend, Backend, Full-Stack.
- Soft Skills:** Teamwork, Effective Communication.