

Segni Tadele Tulu

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Experience

Software Engineer Intern MARVIN WINDOWS Fargo, ND 05/2023 – Present

Phase II: System Programming

- Developed 5 advanced GUI interfaces using **Ignition** and **Python**, enhancing system control and reducing operator errors by 15%.
- Implemented centralized **MS SQL** Server data repository, optimizing queries through indexing and stored procedures, resulting in a 30% improvement in work efficiency.
- Designed and implemented a recut feature that verifies if parts are cut correctly and redirects them for proper cutting if needed, reducing material waste and **saving the company over \$100,000 annually**.

Phase I: Full-Stack Software Development

- Created an end-of-shift reporting tool that reduced report generation time by 40% and improved data accuracy, providing supervisors with a production analysis and daily summary via email.
- Collaborated with Design and Product teams to develop a machine metrics tool using **APIs, C#, SQL, Azure**, and **Javascript with React** to track and display machine status on production line TV boards, improving operational efficiency by 45%.

IT Technician CONCORDIA ITS Moorhead, MN 08/2023 – 05/2024

- Showcased technical proficiency by addressing hardware, software, and Wi-Fi connectivity issues. Documented and troubleshooting for 10 to 15 students and faculty weekly.
- Delivered exceptional online and phone support to customers, building strong connections and swiftly resolving their technical issues.

Skills

- PL and Frameworks:** Java, Python, Kotlin, JavaScript (React, Angular), Ruby, C#, C++, C, Assembly, PHP, SQL
- Web & Mobile Development:** Next.js, React, Angular, Spring Boot, Node.js, Android Studio, HTML5, CSS, Bootstrap
- Databases & Cloud:** PostgreSQL, MS SQL, MongoDB, Firebase, AWS, Azure
- Tools & DevOps:** Docker, Git, GitHub, GitLab CI/CD, Gradle, Postman, Jira, Confluence

Projects

Pokedex - Full Stack Development - [FD: [Github](#)], [BD: [Github](#)]

- Designed and developed a feature-rich Pokedex with pagination, multi-parameter filtering, and capturing capabilities using the Model-View-Controller (MVC) architecture in a **Spring Boot** backend with **Java**, and a **Next.js** frontend.
- Integrated **Docker** for backend hosting, **GitLab CI/CD** for frontend deployment on Vercel, and **PSQL** for database management.
- Implemented user authentication and authorization using Clerk.js to enhance security and provide personalized user features.

Customer Churn Prediction Model - Back End Development - [BD: [Github](#)]

- Developed a bank customer churn prediction model using Python libraries (scikit-learn, TensorFlow), building an end-to-end pipeline to support targeted retention strategies.
- Cleaned and pre-processed data with **R**, and utilizing key **Python** libraries **Pandas** and **NumPy**, optimizing model performance with hyperparameter tuning and cross-validation, boosting accuracy by 10%.

Newroz Kebab Restaurant Website - Web Development Volunteer - [FBD: [Github](#)]

- Built a responsive business website that increased online customer engagement, attracting over 50 additional customers per week and streamlining order processing time by 30%.
- Created an online reservation system with admin controls, user login, and email notifications, utilizing **PHP, SQL**, and phpMyAdmin.
- Implemented front-end with **HTML5, CSS, Bootstrap, and JavaScript**; used Git and Jira, boosting productivity by 55%.

The Chefs Laundry Android Mobile App - Android Development - [BD: [Github](#)]

- Developed an Android restaurant game, engaging 50+ test users and increasing retention by 15% through intuitive design.
- Optimized game performance using **Kotlin**, Gradle, and Android Studio, implementing smooth screen transitions and streamlined user interactions, resulting in 15% faster load times and a 10-point increase in user satisfaction scores.

Education

Bachelor of Arts CONCORDIA COLLEGE Moorhead, MN Exp: Dec. 2025

- Major** in Computer Science and Minor in Maths, Data Analytics and CyberSecurity.
- Relevant Courses:** Database Management Systems, Data Structures and Algorithm, Deep Learning, Linear Algebra.
- Organization and Activities:** SWE Fellow at Headstarter, ColorStack, UMSA Foundation Scholar, NDSU Map the system.
- Leadership: Project Manager for the Computer Science Society**(2024 - 2025): Led the development and launch of the club's website, implementing a CI/CD pipeline for deployment. Organized tri-college hackathons, engaging 15-20 students. Mentored peers on career strategies, providing resources and advice for tech careers. [[Github](#)], [[Website Link](#)]