# Yoseph Tezera

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# EDUCATION AND RELATED COURSEWORK

**University of Maryland**, College Park, MD

Bachelor of Science in Computer Science, Minor in Applied Mathematics

**Relevant Coursework**

* **Advanced Programming**: Object-Oriented Programming, System-Level Programming in C and MIPS, Organization of Programming Languages
* **Data Science and ML**: Data Science with SQL and Python, Machine Learning, Deep Learning, Intro to Artificial Intelligence (AI)
* **Algorithms and Math**: Algorithms, Statistics and Probability Theory, Linear Algebra and its Applications, Advanced Calculus
* **Web Development**: Web Development, Full-Stack Development with JavaScript, Node.js, and React

# TECHNICAL SKILLS

**Programming Languages**: Python (Expert), Java (Expert), C++ (Proficient), JavaScript (Proficient), TypeScript (Familiar), Rust (Familiar), PHP (Expert), MySQL (Proficient), C (Proficient), C# (Proficient), Ruby (Basic), R (Expert), MATLAB (Expert )

**Web & Frameworks:** ReactJS, Node.js, Spring Boot, HTML/CSS

**Machine Learning & Data Science:** TensorFlow, PyTorch, OpenCV, Pandas, NumPy, Scikit-Learn, Seaborn, Matplotlib

**Tools & Platforms:** Git, GitHub, Unix/Linux, Docker, NLP, GANs

**Other:** Strong experience with Data Structures and Algorithms, Object-Oriented Design Patterns, Database Management Systems (DBMS)

# PERSONAL PROJECTS & EXPERIENCES

**Neural Network and Convolutional Neural Network (CNN) from scratch**

Python | 2023

* Designed a custom neural network from scratch, demonstrating a deep understanding of machine learning fundamentals.
* Developed a CNN using Python, focusing on optimizing architecture for improved performance on image classification tasks.
* Achieved competitive accuracy on benchmark datasets, showcasing the ability to apply theoretical concepts in practical applications.
* Leveraged TensorFlow and NumPy to enhance model performance and efficiency.

**School-App**

React JS | 2023

* Developed a web-based application for managing school-related tasks and information, inspired by popular platforms like Canvas.
* Implemented full-stack features, including user authentication, data storage, and real-time notifications.
* Used Java Spring Boot for the backend and ReactJS for the frontend, integrating RESTful APIs to handle data flow efficiently.

**Sudoku**

Unity 2D | 2022

* Created a complete Sudoku board game with a 9x9 grid, multiple difficulty options, hints, and themes using Unity game engine and C#.
* Implemented a Sudoku table generator and solver using efficient algorithms like backtracking, optimizing both memory and performance.
* Gained knowledge in Algorithms, Data Structures, and Animation through online courses.

**Blockchain Voting System**

Python | 2024

* Developed a blockchain-based voting system using Python, Flask, and SQLite, ensuring secure, immutable, and transparent elections with features like real-time result visualization, candidate statistics, and blockchain audit.
* Designed and implemented scalable back-end architecture, including voter authentication, encrypted vote storage, and a robust admin dashboard for election management, leveraging technologies like Chart.js for data visualization.

# WORK EXPERIENCE

**Software Engineer Intern**

Montgomery County Public Schools Division of Information and Technology | Summer 2025 - Present

* Built a Python/Selenium tool for dynamic SSRS report comparison, packaged an executable Senior Developers use for over 9,000 reports.
* Collaborated with senior engineers to implement new features, contributing to the development of structural and thermal simulation tools.
* Designed and executed automated testing pipelines for project code, improving regression test efficiency and code coverage.
* Participated in regular mentorship and development workshops, strengthening skills in object-oriented programming and software design.

**Team Leader**

Chick-fil-a Tech Road, White Oak, MD | Aug 2021 - Present

* Lead a team of 15+ members, optimizing daily operations and enhancing team performance through data-driven decision-making.
* Utilized databases and checklists to track performance metrics and implemented strategies that increased efficiency by 20%.
* Assigned roles strategically based on individual strengths using team leader skills, optimizing task execution.
* Fostered a collaborative environment, leveraging strong leadership and mentoring skills to improve team morale and productivity.

# ADDITIONAL SKILLS

* **Languages:** Fluent in English and Amharic; basic understanding of Spanish.
* **Leadership & Teamwork:** Proven ability to lead and collaborate effectively in diverse environments.
* **Problem Solving:** Skilled in analyzing complex issues and developing innovative, practical solutions.
* **Adaptability:** Quick learner, adaptable to new technologies, and thrives in fast-paced environments.