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.