M. Elijah Wangeman

Computer Scientist

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ABSTRACT

Curious, adaptive, and excels at communication. Excited for an opportunity to contribute to cutting edge projects and meet new mentors and peers.

EXPERIENCE

AUG – DEC 2022 (FULL TIME)

TEOCO
Full Stack Software Engineer

Worked 45 hours a week as a junior developer helping to bring an Angular SPA product to release. Used Conductor to produce bulk data analysis for the back end. Followed an Agile approach to bringing a Kendo UI based corporate data management application to customer readiness. Industry experience with C#, Java, Typescript, & SCRUM collaboration.

JAN – MAY 2022 (PART TIME)

Rochester Institute of Technology
Software Engineering Course Assistant

Grading, supporting, and mentoring students learning Python in CS-123. Answering questions and giving feedback in and out of class, and holding weekly sessions to help with problem solving.

(RIT)

Courses

MATH: Calculus, Linear, & Discrete.
CS: Theory, Data Structures & Algorithms (***Java***).
Programming: Mechanics of Programming (***C;*** *memory management and pointer math*), Concepts (***MIPS assembly;*** *interfacing with hardware and bitwise logic*), Intro to AI (***Python;*** *decision trees, perceptrons, prolog, symbolic and convolutional neural networks*), Machine Learning (***SciKit, tensorflow;*** *cleaning data, training models, and developing pipelines with industry tools*), SWEN-261 (***Java, TypeScript, Angular, SQL***), Parallel and Distributed Systems (***C#***), Databases (***SQL***), PLC (***Java;*** *building lexer, syntax analyzer, transpiler*), Programming Skills (***Rust;*** *ownership, traits, lifetimes in production ready code*).
Physics: Quantum Technologies (*Dirac notation & matrix representation to construct and test quantum circuits, especially QKD*), Quantum Computing (***qiskit & QASM;*** *quantum algorithms and gates*), Emerging & Low Dimensional Materials 789 (***fabricating graphene transistors;*** *characterizing with AFM, SEM, STEM, Raman scattering, et cetera*).

SKILLS

Collaboration & Communication

Most comfortable in teams working with and around people. Effective at communicating concepts across disciplines. Very fast and competent reader (800 wpm), even in complex topics. 3 years Chinese, 1 year Arabic & ASL.

Academic Breadth

A unique mix of computational, physics, & liberal arts courses and accomplishments give me novel insights to problem solving. Projects spanning mechanical & quantum computing, functional programming, linguistics, embedded & full stack software engineering, machine learning, & more.

OBJECTIVE

Internship as a computer scientist with a focus on machine learning and data analysis, available May – December 2024.

EDUCATION

2020 – 2025 **BSc Computer Science**
Quantum & Philosophy Minors
Rochester Institute of Technology

HONORS

2020 – 2024 **RIT Presidential Merit Scholarship & Dean's List**
Rochester Institute of Technology

2022-24 **Philosophy Club Treasurer**
Rochester Institute of Technology

OCT 2020 **Eagle Rank**
Earned bronze palm and performed hundreds of hours of community service.
Scouts BSA, Catalina Council, Troop 115

MAY 2020 **AP Scholar with Honor**
Excelled on 11 AP Exams and scored 99th percentile on SAT (1510) and ACT (35).
Collegeboard

MAR 2020 **Astronomy Achievement Award, Original and Creative Problem Solving in Mathematics, Excellence in Earth and Space Science, et al.**
Computational Astrophysics Research
Southern Arizona Research, Science, and Engineering Foundation

FEB 2020 **Junior Science and Humanities Symposium at ASU**
Invited to present astrophysics research at youth research conference

EXPERTISE

LANGUAGES	Rust, C, Java, Python, Julia, Haskell, SQL, HTML5, CSS, Bash, Type & JavaScript
TOOLS & SYSTEMS	Linux, OS X, Vim, Git, LaTeX, Windows, Adobe Suite, KiCad
GENERAL	Public Speaking & Presentation, Academic & Technical Writing, SMT Soldering & PCB Design