M. Elijah Wangeman

Software Engineer

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ABSTRACT

Curious, adaptive, and excels at communication. Excited for an opportunity to further my industry experience in software engineering, and to work in a team where I can learn and collaborate as much as possible.

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 (SCHOOL PROJECT)

Software Engineering 261
Online Store

Worked as part of a team to build the front and back end of an e-store. A Java front end used the REST API to interface with a Java middle end following the Model-View-Controller pattern, which sent requests to a MySQL database hosted on a Raspberry Pi. This infrastructure allowed unprecedented flexibility, reliability, and testability. Worked under SCRUM with Maven, Angular, and team planning experience. Utilized Git version control, branches, and detailed documentation (JavaDoc) to practice modern software industry methodology.

(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.

OBJECTIVE

Internship as a full stack software engineer (with interests in embedded programming and DevOps), 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, Angular
GENERAL	Public Speaking & Presentation, Academic & Technical Writing, SMT Soldering & PCB Design