M. Elijah Wangeman
Computer Scientist

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ABSTRACT

Curious, adaptive, and excels at communication. Excited for an opportunity to gain experience and learn at the forefront of scientific discovery and to meet new mentors and peers.

EXPERIENCE

JAN – MAY 2024 (PROJECT)

Rochester Institute of Technology
Fabricating Graphene Transistors (PHYS/MCEE-789)

Gained hands-on experience in nanotechnology, focusing on physics and applications of emerging nanomaterials like graphene. Involved in preparation, synthesis, and characterization of 2D materials and fabrication of nanoelectronic devices. Fabricated graphene transistors, utilizing techniques such as optical spectroscopy, electron and scan probe microscopy, and device fabrication processes. Enhanced skills in nanomaterials handling and device engineering, and understood their applications and importance in future computing and quantum technologies.

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.

SEP 2019 – FEB 2020 (RESEARCH)

Galactic Variables and Their Correlations to Hosted Supermassive Black Hole (SMBH) Masses
Computational Astrophysics Research

Using Python and .csv files to identify trends in the (efficiently) observable variabilities in spiral galaxies and build a model to predict the mass of SMBH's based upon resource-light and accessible variables (as opposed to stellar velocity dispersion or simulation), and illustrate the potential for automating this task.

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 computer scientist with a focus on nanomaterials, semiconductors, and chip processes, 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