

NIYA MA

(215)980-9810 ▪ nima@davidson.edu ▪ Davidson, NC

EDUCATION

Davidson College

Davidson, NC

Double Major: B.S. Mathematics, B.S. Computer Science

Expected May 2024

- Major GPA: **3.9**
- Notable coursework: **Machine Learning, Deep Learning, Real-Time Systems**, Real Analysis, Combinatorics, Operating Systems
- Student Activities: Davidson College Chorale, Rusk Eating House, Resident Advisor

WORK EXPERIENCES

Qualtrics

Seattle, WA

Software Development Engineering Intern, Developer Experience Team

May 2022 – August 2022

- Designed and implemented an updating process for 20+ services created using [Backstage bootstrapping](#).
- Wrote custom templates and actions to batch-update Git repositories using TypeScript, YAML, and Git.
- Made an [open-source contribution](#) to Backstage.
- Advocated for adding template guidelines which improved team's project compatibility.

PIIE (Payment Intelligence Integration Engine)

Davidson, NC

Front End Developer

September 2021 – November 2021

- Reduced insurance companies' cost to send claim checks by 50%.
- Developed **JavaScript** code to convert design wireframes into website elements using REACT framework.
- Used front-end development frameworks: Spring and **React**, programming languages: JavaScript.

ACTIVITIES

Competitive Coding at Davidson

Davidson, NC

Vice President, Project Manager

January 2022 – Present

- Co-founded the first competitive coding club at Davidson College with 80+ members.
- Hold weekly meetings to discuss coding problems and bi-weekly coding challenges.
- Manage 2+ projects and compete in hackathons.

Association for Women in Mathematics, Davidson College Chapter

Davidson, NC

President

May 2022 – Present

- Hold monthly programs to promote equal opportunities for women and nonbinary students.
- Raise funds to support women and nonbinary students to attend conferences.

SKILLS & ACHIEVEMENTS

- **Hackathons:** [Best ML Hack Using Carbon Footprint Data](#) in VTHacks X, [Most Customer Focused](#) in HackViolet, [Most Creative Use of Automation](#) in Pearl Hacks. [Best Security And Privacy](#) in VTHacks IX, [3rd Place](#) in Bison Hacks.
- **Technical:** **Java, Python, TypeScript, C**, YAML, Linux, Git, React, JavaScript, CSS, HTML, R, AWS
- **Awards:** [Nisbet Venture Fund](#) winner, Alvarez Grant recipient, RISE Scholarship recipient.
- **Certificates:** [AlgoExpert 100 Questions](#), [R Programming](#)

RESEARCH EXPERIENCE

ALPhA (Algorithms for Learning in Physics Application)

Davidson, NC

Student Researcher

May 2021 – June 2021

- Processed over 400 ⁴⁶Argon detector scatter images from the Active-Target Time Projection Chamber at the National Superconducting Cyclotron Laboratory.
- Simulated detector images using unpaired image-to-image translation program in **Python**.
- Trained CycleGANs (Cycle Generative Adversarial Networks) using **machine learning** methods to learn mapping between clean and noisy images.