

MATTHEW BODDEWYN

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Education

University of Rochester *Rochester, NY*

Bachelor of Science, Computer Science | Minor, Business May 2020

- Major GPA of 3.62 out of 4.00
- Dean's List – Fall 2017, Spring 2018, Fall 2018, Spring 2019

Independent Study September 2019 – May 2020

- Study and application of polyhedral compilation techniques applied to the implicit array operations performed by the array language, **Yorick**, to provide more thorough analysis and transformations of loops

Work Experience

Excellus BlueCross BlueShield *Rochester, NY*

Engineering Intern June 2019 – Present

- Design and implement **Ansible** automation schemas for **Linux** VM creation and maintenance, backup and restore workflows, code deployment as well as Oracle and SQL database creation resulting in saving over 60 hours of manual labor per month

iD Tech Camps *New York, NY*

Course Instructor June 2018 – August 2018

- Instructed students through curriculums in topics including an introduction to **Python**, cybersecurity and encryption, and machine learning with **Tensorflow**
- Produced original, in-depth lesson plans and led advanced projects for students to supplement the course syllabus

Projects

- Art House [Startup] - (Django, Linux) September 2018 - Present
 - Principal backend engineer of digital marketplace and photo sharing platform
 - Lead 3 backend engineers to provide more robust and efficient features
 - Implemented image caching and thumbnailing techniques resulting in page load time decrease from minutes to milliseconds
 - Deployed and maintain **Apache**, **Ubuntu** webserver and lead security efforts
- Yorick to C Translator [Independent] - (Python) May 2019 - Present
 - Extend compiler tools for array language, **Yorick**, to generate **C** code exposing implicit operations for later optimization
- C Language Subset Compiler [Academic] - (Python) December 2018
 - Created compiler frontend and backend to perform control flow and loop analysis and transformations on **C** code

Leadership Position

Alpha Kappa Psi Professional Fraternity *Rochester, NY*

President December 2018 – Present

- Lead executive board to organize enriching professional events for 30 members

Programming Languages

- Rust, Python, Java, Yorick, C++, C, Ansible-YAML, OCaml, Haskell