Christian Tonti

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EDUCATION

University of Maryland – College Park, MD — Expected May 2022
Bachelor of Science in Computer Science and Information Systems — GPA: 3.82/4.00

SKILLS

Proficient: Java, Python, C, JavaScript, HTML5, CSS3
Intermediate: SQL, Assembly, PHP, Jinja2
Technologies: Linux, Git, Splunk, Database Management

RELEVANT COURSEWORK

Organization of Programming Languages, Algorithms, Computer Systems, Discrete Structures, Data Science, Object-Oriented Programming I/II

EXPERIENCE

T. Rowe Price Group — June 2020 – Aug 2020
DevOps Engineering Intern — Owings Mills, MD

- Utilized Splunk and collaborated with various app teams to create interactive and customized dashboards to be used for monitoring AWS resources across multiple environments
- Developed Python3 scripts which interacted with the GitLab and Splunk APIs to scrape and parse JSON deployment configurations and upload lookup files to Splunk
- Participated in daily Kanban meetings to manage workload and organize development

University of Maryland Department of Computer Science — Jan 2020 – May 2020
Undergraduate Teaching Assistant — College Park, MD

- Selected to serve as a teaching assistant for Introduction to Computer Systems (CMSC216) under Dr. Ilchul Yoon in the Department of Computer Science at the University of Maryland
- Prepare and present course materials to a discussion section of 35 students twice per week
- Collaborate with other teaching assistants to grade code projects handwritten assignments written in C and Assembly in a timely and efficient manner

University of Maryland Electron Ring — June 2019 – Aug 2019
Software Engineering Intern — College Park, MD

- Expanded upon a Python Flask server to allow remote control and secure access to the accelerator's systems from anywhere on the campus network
- Created a browser-based dynamically loaded user control interface with Jinja2 and JavaScript which utilized HTTP requests to communicate with the server in the lab
- Deployed an InfluxDB and Grafana server to store and visualize large amounts of time-series data such as magnet power readouts in a human-friendly and efficient manner
- Migrated VISA communication with oscilloscopes from GPIB to LAN and wrote Python drivers which decreased transfer time of 200,000 waveform datapoints by 75%

PROJECTS

Autonomous Unmanned Systems Stream, FIRE — Jan 2019 – Dec 2019
Project B.O.A.T. — College Park, MD

- Designed a system for a swarm of small autonomous boats to push a larger boat to a target area and researched the broader applications of the technology
- Constructed a working prototype which finds a target via an infrared beacon and communicates with other autonomous craft through radio
- Created a simulation in Processing which shows the acquisition of the target as well as the cooperation between craft as independently functioning motors in order to navigate

ACTIVITIES

Kappa Theta Pi Technical Committee — Dec 2018 – Present

- Plan and host technical development workshops for brothers such as GitHub tutorials, basic web design, and preparing for technical interviews
- Assist in the creation of a website for the University of Maryland chapter of the fraternity
- Market and spread awareness of fraternity-sponsored events and rush dates