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: 3.85/4.00

SKILLS

Proficient: Java, Python, C, JavaScript, HTML5, CSS3
Intermediate: SQL, ReactJS, Ruby, PHP
Technologies: AWS, Docker, Git, Jenkins, DBMS, Agile

RELEVANT COURSEWORK

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

EXPERIENCE

Capital One Financial — June 2021 – August 2021
Software Engineering Intern — Richmond, VA

- Created an external facing interactive learning site using ReactJS and Python Flask
- Deployed and maintained containerized AWS infrastructure involving ECS, EC2, Postgres RDS, and IAM roles in a CI/CD environment through Jenkins
- Coordinated with team members, interns, and product owners in an Agile environment to ensure business needs and standards were thoroughly met

T. Rowe Price Group — June 2020 – August 2020
Software Engineering Intern — Owings Mills, MD

- Utilized Splunk and collaborated with multiple app teams to build interactive and customized dashboards to be used for monitoring AWS resources across development environments
- Developed Python3 scripts to interact 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 — January 2020 – May 2020
Undergraduate Teaching Assistant — College Park, MD

- Selected to serve as a TA for Introduction to Computer Systems (CMSC216) under Dr. Ilchul Yoon
- Prepared and presented course materials to a discussion section of 35 students twice per week
- Collaborated with other teaching assistants to grade code projects handwritten assignments written in C and MIPS Assembly in a timely and efficient manner

University of Maryland Electron Ring — June 2019 – August 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 new Python drivers to decrease transfer time of 200,000 waveform data points by 75%

PROJECTS

Autonomous Unmanned Systems Stream, FIRE — January 2019 – December 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 broader applications for this 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 to visualize the acquisition of a target as well as cooperation between craft as independently functioning motors in order to navigate a 2D space