

JOHN ROBERT O'DONNELL

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EDUCATION

Cornell University, College of Engineering

Ithaca, New York

Bachelor of Science in Electrical and Computer Engineering

Expected Graduation Dec 2022

- *Relevant Coursework:* Introduction to CS Using Python, Introduction to Machine Learning, Introduction to Circuits, Object-Oriented Programming and Data Structures in Java, Digital Logic and Computer Organization, Embedded Systems, Intelligent Systems, Electric Power Systems, Computer Networks and Telecommunication

Awards

- *Eagle Scout – Boy Scouts of America*
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WORK EXPERIENCE

Torrential Data Solutions

Virginia Beach, Virginia

Software Engineering Associate

May 2020 – Present

- Developed document management web application embedded in Microsoft Dynamics 365 - notably CRM and BC
- Wrote a responsive and mobile-friendly frontend for document management (VueJS, RxJS, Sass, TypeScript)
- Strengthened the backend with a strong focus on optimization and security (C#, .Net Core, Entity Framework)
- Designed and built a robust administration tool for customers to have greater control over their environments
- Overhauled our integrated PDF viewer to and exceeded expectations of the senior developers
- Updated our Business Central codebase to use modern practices (Microsoft AL)
- Taught interns how to be more effective with Git and Docker

Cornell Data Science Project Team

Ithaca, New York

Team Technical Lead

January 2019 – Present

- Lead a team that made an app that graphed Twitter user relationships to gain data insights (Python, Azure, CosmosDB)
- Created a facial recognition web app (Python, ExpressJS, Azure, Docker, Kubernetes)
- Developed a Google Chrome extension that helped visualize HTML and CSS layout (Javascript, Chrome Extensions)
- Acted as head of Security for a web app that would interact sensitive student data and Cornell's Active Directory

Intern at Gannett Company Chesapeake Office

Chesapeake, Virginia

Summer Intern - Senior Project

June 2017 – August 2017

- Built a system to using Syslog-ng, Elasticsearch, Kibana, to collect, analyze and display, malicious packets dropped by the network border routers in real-time with Geodata associated with the IP addresses of the traffic
 - Performed a penetration test on a development server under the guidance of the security team
 - Interviewed members from various teams in the company from the AppOps, DevOps, Infrastructure, Database, and Security teams
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LEADERSHIP ROLES

Phi Delta Theta Fraternity

Ithaca, New York

Recruitment Chairman

Spring 2021-Fall 2021

- Facilitated recruitment of new members by planning events and activities with a limited budget
- Recruited the highest number of new members for a Fall semester (17 new members) and broke a whole year record for the fraternity in recruiting 36 new members between the Spring and Fall semesters

Cornell Data Science Project Team

Virginia Beach, Virginia

Team Technical Lead

Fall 2021 - Spring 2022

- Managed the Azure and AWS subscriptions as well as on-campus servers for the whole project team
 - Lead Workshops to show members how to use our cloud and on premises resources
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SKILLS

Programming Languages: JavaScript (intermediate), C# (intermediate), Python (intermediate), UNIX Shell (intermediate), Java (basic), SQL (basic), TypeScript (basic), C (basic), C++ (Basic), Rust (basic), Verilog (Basic)

Frameworks/Technologies: VueJs (intermediate), Git (intermediate), .NetCore (basic), Entity Framework (basic) Docker (intermediate), Kubernetes (basic), Microsoft Azure (intermediate), Azure Devops (basic)