

Thomas Owens

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thomas1400.github.io

EDUCATION

Duke University

B.S.E. in Electrical and Computer Engineering and Computer Science

May 2022 Expected

GPA 3.9 / 4.0 - Dean's List with Distinction Fall 2019; Dean's List Fall 2018, Spring 2019

SKILLS

Software

Java, JavaScript, Node.JS, Python, C, C# in Unity, Assembly, and MATLAB.

Development

Relevant coursework: data structures and algorithms, intro to AI, computer architecture, high-level software design, operating systems.

Electrical

Engineering

Relevant coursework: computer architecture, signal processing, fields and waves, microelectronics, circuit design and analysis.

EXPERIENCE

Optum - Raleigh, NC

Software Development Intern

June 2020 - August 2020

- Collaborated with business leaders and an agile team of 6 interns to develop a web-based platform for visualization and management of pharmaceutical shortages.
- Facilitated team planning and productive communication as an agile scrum master.
- Developed and deployed a Node.JS server to host our platform's back-end API, with integrated MongoDB database and Apache Solr Engine for search.

Duke Department of Electrical and Computer Engineering - Durham NC

Lab Teaching Assistant, Fundamentals of ECE

January 2020 - Present

- Reinforced electrical engineering concepts through hands-on learning in 15 laboratory exercises.
- Lead a lab section of 12 students as they completed a large-scale design challenge involving the integration of microcontroller-driven autonomous movement, sensing, and communication.

Duke Engineering First Year Design - Durham, NC

Teaching Assistant, Engineering 101

August 2019 - December 2020

- Mentored 2 teams of 5 first-year engineering students: taught skills including programming, electronic prototyping with microcontrollers, CAD, 3D printing, laser cutting, and woodworking.
- Facilitated the delivery of a product to reliably monitor and maintain the function of \$50,000+ bioreactor-based experiments in the Marcus Center for Cellular Cures.

Summer Intern

May 2019 - August 2019

- Designed class materials with the goal of greater student engagement and higher-quality technical work, including over 110 minutes of video lectures, online technical instruction with over 7,500 views, and 5 comprehensive technical learning projects that will be completed by 250+ first-year engineers each year.

DEVELOPMENT PORTFOLIO

I develop software and scripts for a variety of practical and fun applications, from automation to gaming. Take a look and try some out on my website at thomas1400.github.io, or see the source code on GitHub at github.com/thomas1400.