

## Daniel Jacques

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Github:



### EDUCATION

Ohio University, Athens, OH

Bachelor of Science: Computer Science | Minor: Mathematics

Expected Graduation: May, 2021 | Overall GPA: (4.00 scale): 3.54

Deans List: Fall 2017, 2018 2019

### QUALIFICATIONS

- Languages: Python, C/C++, Ladder Logic, Javascript/Typescript, HTML, Rust, SQL
- Tools/Skills: Android Studio, Arduino, Apollo, AWS (DynamoDB, Fargate, S3, Lambda, API Gateway, EC2, ECS, ECR, CodeBuild, CodePipeline, CodeDeploy), Docker, Fusion 360, GitHub/Bash, GraphQL, Jira, Kubernetes, Node, Oracle, Postman, PuTTY, Rancher, REST API, React, React Native, Visual Studio Code, Wireshark, XCode
- Operating systems: Windows, Linux, Mac OS

### WORK EXPERIENCE

**Ohio Information Technologies (OIT)** *Student Software Engineer* (January 2020 – Present) Athens, OH

- Redesign Ohio University applications from legacy code to updated deployable Typescript/Angular applications
- Work in an agile scrum team of 3 in which I am tasked with backend REST API development
- Work 14 hours on top of another job and a typical class schedule
- Earn experience with multiple modern development tools and libraries Docker, Kubernetes, Angular, and more
- Utilize scaffold to develop directly inside of a Kubernetes cluster

**Heritage College of Osteopathic Medicine (HCOM)** *Computer Science Student Employee* (September 2019 – Present) Athens, OH

- Maintain and update the Ohio University HCOM website
- Create graphs and images based on alumnus data
- Develop a Python web scraper to scrape from the Accreditation Council for Graduate Medical Education (ACGME) website

**Innosource** *Nationwide Application Developer Intern* (June 2020) Remote

- Researched and removed Feature Flipping for Java (FF4J) toggles across multiple business applications
- Attended lectures highlighting multiple design tools, principles, and fields
- Participated in daily standups to report on my work progress

**Southwestern Ohio Council for Higher Education (SOCHE)** *Center for Cyberspace Research Intern* (May 2019 – August 2019) Wright Patterson Air Force Base, OH

- Designed in Python and Arduino a 4 Degree of Freedom table
- Learned the basics of I2C communication and connecting electronic components
- Attended lectures and completed basic labs based on cyber physical vulnerabilities

### Coursework and Projects:

- Computer Science and Engineering:
  - o Design & Analysis of Algorithms      Computer Organization      Data Structures      Software Tools
  - o Programming Languages      Microcontrollers      Databases      Parallel Computing
  - o Compilers & Formal Languages      Embedded Systems      Operating Systems
  - o Software Design I & II
- Mathematics and Science:
  - o Calculus III      Discrete Math      Data and Statistics      Linear Algebra      General Physics II      Differential Equations
- Projects:
  - o Kubernetes Server Manager / Games by the Minute, Inc. - A second place winning hackathon project that runs game servers in a Docker image managed by a micro-currency. My team and I began the scaffolding to turn this into a C corporation called Games by the Minute, Inc. to formalize our idea into an official product. We integrated AWS into our workflow to automate deployments of our GraphQL API and React front-end.
  - o OU Upperclass Scholarship / OU Course Offerings (OIT) - These are multi-part applications running in a Kubernetes cluster that utilize Angular 8 for the UI and Typescript for the backend. My contributions were across the entire stack, including the frontend, backend, and some parts of the pipeline. With these projects, my team heavily incorporated the agile workflow.
  - o Other:
    - 4-Degree of Freedom Motion Table      Personal Website      Catmap      Grumpy Programming Language & Compiler
    - Green App\*      Checkers      Useless Website\*\*      Electroencephalogram Study

\*2019 - Won the JP Morgan Chase award for environmental hack at Hackaplachia, a hackathon located at Ohio University for students of Appalachia

\*\*2018 - Won an award for being the most useless hack at RevolutionUC