

Jonathan Daniel

jmdanie@clemson.edu | jonathandaniel.tech

TECHNICAL EXPERIENCE

CLEMSON CAPSTONE PROGRAM - AMAZON WEB SERVICES

SOFTWARE ENGINEER

Spring 2022 | Clemson, SC

- Implemented a localization feature for sign-in tracking system.
- Adjusted **DynamoDB** structure to more efficiently track user information.
- Implemented **PyTest** unit testing framework for **AWS Lambdas**.

META

SOFTWARE ENGINEERING INTERN

Fall 2021 | Menlo Park, CA (Remote)

- Developed and implemented a UI to help users understand if a Live Broadcast was interrupted due to poor network conditions.
- Refactored playback stall monitor in **Kotlin** to trigger dynamic rebuffering.
- Tuned and optimized values used to determine initial buffering for video playback.

STATE FARM

TECHNOLOGY INTERN

Summer 2021 | Bloomington, IL (Remote)

- Developed dashboards using **DynaTrace** for monitoring backend services.
- Created endpoint in **Spring** backend service for retrieving multiple customers' data.
- Contributed to Modernization Efforts while developing **JUnit** and **Karate** tests.

WATT FAMILY INNOVATION CENTER

CEVAC INTERN

Spring 2021, Spring 2022 - Ongoing | Clemson, SC

- Refactored Python modules for pulling in building data through **Meerschaum**
- Developed Time Series Models using **NeuralProphet**, **XGBoost** and **Tensorflow**
- Analyzed Time Series Data with **Pandas** and **Jupyter Notebooks**

UNDERGRADUATE RESEARCH ASSISTANT

Fall 2020 - Ongoing | Clemson, SC

- Created data generation scripts for text and audio training Data.
- Develop Named-Entity Recognition models with **PyTorch**

CLEMSON UNIVERSITY AUTONOMOUS SYSTEMS GROUP

UNDERGRADUATE RESEARCH ASSISTANT

Summer 2020 - Spring 2021 | Clemson, SC

- Developed multi-agent mapping strategies with the **Robot Operating System**
- Created autonomous navigation strategies for the F1TENTH competition.

INVOLVEMENT

CLEMSON UNIVERSITY SCHOOL OF COMPUTING

UNDERGRADUATE TEACHING ASSISTANT

Fall 2020 | Clemson, SC

- Assisted students with **C** and **C++** lab assignments in Programming Methodology

CUHACKIT

CO-DIRECTOR

Summer 2020 - Ongoing | Clemson, SC

- Leads a team of students that organizes 2 hackathons at Clemson University.
- Maintains relationships with sponsors and recruits students for the organizing team.

TIGERVISION

CHIEF ENGINEER

Fall 2019 - Ongoing | Clemson, SC

- Coordinate and train Production Assistants for television programs

EDUCATION

CLEMSON UNIVERSITY

May 2023 | Clemson, SC

B.S. Computer Science

GPA: 3.93/4.0

SKILLS

LANGUAGES

Proficient:

Python • C++ • Java

Intermediate:

C • Javascript • SQL

Beginner:

Kotlin • AWS

DATA SCIENCE + ML

IBM Watson • Jupyter • Seaborn

Pandas • Scikit-Learn • NumPy

PyTorch • Matplotlib

TECHNOLOGY

Git • Docker • Linux • LaTeX

Android • Heroku • JUnit • Node.js

Express.js • React.js

MISCELLANEOUS

Research • Presentation • MVC

Object-Oriented Design

COURSEWORK

Algorithms and Data Structures

Foundations of Computer Science

Mobile App Development

Database Management Systems

Discrete Structures

Introductory Business Statistics

Linear Algebra

HONORS

CLEMSON NATIONAL SCHOLAR

Member of ten-student cohort in Clemson's academic full-scholarship program.

CUSEHACKS 2021 BEST

COVID HACK

Team award given for the best hack that addresses the COVID-19 pandemic.

CUHACKIT 2020 BEST

BEGINNER HACK

Team award given for developing the best project of all novice hackers.

HELLOWORLD 2019 BEST

AR/VR HACK

Team award given for the best usage of Augmented and/or Virtual Reality.

LINKS

Github:// [JDaniel41](#)

LinkedIn:// [jonathandaniel23](#)