

Douglas Titze

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US Citizen

EDUCATION

University of South Florida

Tampa, FL

Bachelor of Science in Computer Science, GPA: 3.64

Jun. 2020 – May 2024

Relevant coursework: Compilers, Operating Systems, Intro. To AI

TECHNICAL SKILLS

Languages: Python, C#, C, Javascript, HTML, CSS

Developer Tools: Git, Visual Studio Code, Unity

Libraries: Google Apps Script, OpenAI

Collaboration: Jira, GitHub, Google Workspace, Microsoft Office Products

EXPERIENCE

3D Print Lab Technician

May 2022 – Present

University of South Florida IT

Tampa, FL

- Develop scripts for recurring tasks in Javascript and Python to facilitate employee productivity
- Maintain and optimize scripts for increased speed through bug fixes, feature additions, and documentation updates
- Prioritize and organize over 500 customer requests per semester according to deadlines and 3D print speeds to guarantee customer satisfaction

Student Researcher

May 2023 – Aug. 2023

Center For Advanced Medical Learning And Simulation (CAMLS)

Tampa, FL

- Authored a proceedings paper alongside esteemed doctors, addressing the use cases and essential precautions in AI integration within healthcare training
- Aforementioned paper was accepted for presentation at the upcoming IMSH conference in January
- Collaboratively analyzed the technical aspects of Dr. Shannon Bailey's research question, offering insights into potential bottlenecks by acknowledging constraints posed by technological limitations

PROJECTS

Machine Learning Document Sorter | *Python, Google Colaboratory, Github*

Aug. 2023 – Present

- Achieve a throughput of 4 documents a second while preserving accuracy and precision through the implementation of image preprocessing, Optical Character Recognition, and text preprocessing
- Maintain a comprehensive grasp of the entire system, enabling me to provide informed assistance to team members

Diminished Java Compiler | *C, Github*

Jan. 2023 – May 2023

- Incrementally developed a compiler through the comprehensive implementation of a lexical analyzer, parser, abstract syntax tree builder, type checker, and code generator for Diminished Java programs
- Deepened knowledge of compiler architecture, with a particular focus on semantic analysis, memory management (stack/heap), and the transformation of high-level code into machine-level instructions

CollegeIn Website | *Python, Javascript, HTML, CSS, Jira, Github*

Jan. 2023 – May 2023

- Collaborated with a team of three to develop an efficient software workflow using Agile methodology and project management tools such as Jira and Github to ensure on-time project delivery
- Utilized Python to communicate with the backend and implemented FastAPI for efficient data storage in databases
- Created dynamic user pages using the retrieved data from the database, enhancing the user experience with unique user pages

Customer Emailing Service | *Javascript, Google Apps Script, Github*

Nov. 2022

- Enhanced the automated emailing service to increase transparency and deliver complete and accurate order details, resulting in a significant reduction in email-related customer complaints

CERTIFICATES

LinkedIn Learning: Algorithmic Thinking with Python: Diving Deeper and AI Accountability

CodePath: Introduction to Software Engineering

freeCodeCamp: Scientific Computing with Python