

Miguel Jones

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EDUCATION

College of William & Mary
Bachelor of Science in Computer Science

Williamsburg, VA
Sept. 2020 – May 2024

EXPERIENCE

Open Source Developer

June 2023 – Aug 2023

SEO Technology Track

Virtual

- Developed solutions to issues present in multiple open source programs on GitHub using Python and Java
- Communicated with other developers to fix various bugs
- Learned essential skills needed to add to a rapidly changing codebase with multiple collaborators

Tech Developer

May 2022 – Aug 2022

SEO Technology Track

Virtual

- Completed three months of training in software development, web design, databases, and testing
- Designed websites and other web projects using Python, HTML, CSS, and JavaScript
- Worked to improve the UI feel of our web projects while managing user login data using Flask, SQL, and REST APIs
- Implemented Agile software development methodology in design process

Web Designer

Jun 2020 – Jan 2022

Gas Fireplaces Plus

Annandale, VA

- Performed essential updates to the website and hyperlinks
- Designed and edited web page content using HTML and CSS
- Communicated with the customer to understand their specific needs and suggest improvements

CERTIFICATIONS

CompTIA Security+ SY0-701

Awarded: Aug 14, 2024

PROJECTS

Escape the Colonial Crypt | C++, SDL2

Jan 2024 – May 2024

- Created a short RPG dungeon crawler game based around enemy avoidance
- Used the SDL2 library to create the game

leaf_highlight | Python

Oct 2023

- Developed a program that takes Android screenshots and XML metadata dumps from Android's UI Automator Framework and uses them to highlight the leaf-level GUI components that are present in the XML files
- Used Python libraries ElementTree and Pillow to parse and output the highlighted components

Record_Receipts | Java, OCR(Optical Character Recognition), Android, Android Studio

Sep 2022 – Oct 2022

- Developed a program that uses OCR to record receipt data and saves it for a user to track spending
- Implemented important security practices for Android applications that combat common security vulnerabilities

internetCookbook | Python, Heroku, Flask, HTML/CSS, SQL, REST API

Jun 2022 – Jul 2022

- Developed a website that interacts with a recipe API to generate recipes based on a user's search
- Protected user account information by obfuscating data using SALT and hashing

randomShuffle | Python, REST APIs, SQL

Jun 2022 – Jul 2022

- Developed a program that allows a user to get generated playlists of music based on the genres and artists they select
- Integrated the last.fm REST API to allow the program to retrieve song data

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, JavaScript, HTML/CSS, Markdown

Frameworks: React, Node.js, Flask, Heroku

Developer Tools: Git, Docker, VS Code, Android Studio, Vite

Libraries: pandas, NumPy, Matplotlib, ElementTree, Pillow, SDL2