

JONATHAN MACK

3B Software Engineering

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in jedmack

github.com/Mackaronii

SKILLS

PROGRAMMING LANGUAGES: Python, Java, JScript, VBScript, PowerShell, HTML, CSS, JavaScript

FRAMEWORKS: React JS, Bootstrap, Express, TkInter

IDEs + TEXT EDITORS: Visual Studio Code, Android Studio, PyCharm, NetBeans, Atom

SOFTWARE AND TOOLS: Unified Functional Testing, TestComplete, Jira, Artifactory, Confluence, SharePoint, Firebase, Postman

PERSONAL PROJECTS

A* Search Visualizer

June 2020

- A Python Tkinter application that visualizes the A* search algorithm
- Features an easy-to-use NxN maze editor (2x2 to 100x100), the ability to import / export custom mazes, and solver metrics

Firebase Store

Sept. 2019

- A mock e-commerce store for Android devices built with Android Studio (Java) and Firebase
- Features account creation, user authentication, email validation, inventory management, and image galleries

WORK EXPERIENCE

Test Developer, Co-op

May 2020 – Dec. 2020

Kinaxis, Ottawa, ON

- Investigated, reported, and resolved regression test failures using an automated functional testing tool, Unified Functional Testing, and VBScript to ensure that delivered software surpassed quality standards
- Implemented PowerShell scripts to automate the deployment of continuously integrated builds onto virtual machines for internal testing and development

PV Software Developer, Co-op

Jan. 2020 – Apr. 2020

Ross Video Limited, Ottawa, ON

- Spearheaded the design and implementation of a test automation framework using JScript in the functional automated testing platform, TestComplete, for a real-time graphics system to alleviate the burden of manual regression tests
- Integrated the test automation framework with existing software by writing Python and batch scripts to report and archive test results

Functional Analyst, Co-op

May 2019 – Aug. 2019

Canada Revenue Agency, Ottawa, ON

- Devised and presented a project proposal for the configuration of SAP Human Capital Management salary tables to the clients' senior management (Canada Border Services Agency and Canada Revenue Agency)
- Configured SAP Human Capital Management salary tables to accurately reflect current pay rates affecting 40,000+ CRA and CBSA employees
- Developed an internal training wiki page using Confluence to accelerate the learning process of new HR Pay employees

Software Quality Assurance Intern

Dec. 2018 – Apr. 2019

Agriculture and Agri-Food Canada, Ottawa, ON

- Tested the conversion from paper to digital records for 300+ employees by comparing screen captures of the EIMSS system (electronic forms that store employee records and resource allocation) with a senior tester for UI and data consistency
- Demonstrated analytical abilities by identifying areas needing improvement and providing key recommendations to enhance application functionality

SCHOOL PROJECTS

Communication for Engineers Term Project

Sept. 2018 – Dec. 2018

- Researched the viability of drones in search and rescue missions and pitched a funding proposal that highlighted societal benefits to a panel of three experienced judges

EDUCATION

Software Engineering, Bachelor of Engineering, Co-op

Sept. 2017 – May 2022 (Expected)

Carleton University, Ottawa, ON

AWARDS

Carleton University - A. D. Dunton Scholarship (1A, 1B, 2A, 2B, 3A)

Sept. 2018 – Present

REFERENCES

Available upon request.