JONATHAN MACK

3B Software Engineering

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SKILLS

PROGRAMMING LANGUAGES: Java, Python, HTML, CSS, JavaScript, React, Kotlin, C, Racket
FRAMEWORKS: Bootstrap, React Bootstrap, Express
IDEs + TEXT EDITORS: Android Studio, PyCharm, NetBeans, DrRacket, Pelles C, Microsoft Visual Studio Code, Atom
SOFTWARE AND TOOLS: Firebase, Git, Heroku, Postman, SharePoint, Confluence, JIRA, Bugzilla

PERSONAL PROJECTS

LetMeIn
- Currently implementing a mobile NFC reader application that expedites club admission processes
- Built with Android Studio (Kotlin)
- Features NFC detection, account creation, and admission processing

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

WORK EXPERIENCE

Functional Analyst   **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

Web Coordinator Intern   **Sept. 2018 – Nov. 2018**
Agriculture and Agri-Food Canada, Ottawa, ON
- Applied knowledge of integrated business processes to the submission of web page mock-ups of requested web page modifications, creations, and deletions

SharePoint Developer Intern   **May 2018 – Aug. 2018**
Agriculture and Agri-Food Canada, Ottawa, ON
- Diagnosed functional and visual limitations of the Human Resources Directorate team site written in HTML, CSS, and JavaScript
- Created and pitched design proposals for various web pages to senior management by enhancing their UIs to improve organizational efficiency
- Implemented feedback independently after effectively communicating risks and opportunities to senior management
- Mentored coworkers by teaching them SharePoint's administrative functions (groups, permissions, document library views, web parts, etc.) so that they can develop their own team sites

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   **Sept. 2018, Sept. 2019**