College Residence Apartment 402B 901 Meadow Drive Blacksburg VA 24060

Jeremie Dufrois

jeremie.dufrois@gmail.com (571) 723-0495 Permanent Residence 9415 Wareham Court Vienna, VA 22180

EDUCATION Virginia Polytechnic Institute & State University (Virginia Tech), Blacksburg, VA

May 2023

Major: Computer Science

GPA: 3.85

CITIZENSHIP US Citizenship

CLEARANCE Secret

SKILLS Languages: Java, C, JavaScript, Python, Swift, HTML, C++, Jade

OS: Linux, Windows, Android

Software: Intellij IDE, Eclipse IDE, JGrasp IDE, Git, RTC, QGIS, Atlassian Tool Suite, Jenkins,

Swagger, Postman, Gerrit

Other: DevSecOps, Test-Driven development, JUnit, Bilingual (French/English)

WORK Summer Internship – Jacobs, Severn MD

Summer 2022

EXPERIENCE

- 10-week internship as a software engineer scripting in Python/QGIS and working on the Aeroptic's web-based software tool for managing aerial photography and reconnaissance
- Wrote a script using Python and QGIS to locate bridges and alter DEM data to better represent the elevation of bridges above rivers/waterways
- Fixed various bugs and implemented new GUI features using JavaScript/HTML/CSS
- Gained experience using Python Django and the MVT architectural pattern

Summer Internship – Raytheon, Dulles VA

Summer 2021

- 10-week internship as a software engineer on the development team for the MQ-8
 Fire Scout (unmanned helicopter) ground system
- Researched and began cloud migration and conversion to DevSecOps workflow
- Gained experience with various Atlassian tools, Jenkins, and AWS

Fall Co-op – Peraton, Blacksburg VA

Fall 2020

- 17-week co-op as a software engineer working on the Sideswipe IRAD to help create an end-to-end system for satellite/threat detection and evaluation
- Created various front-end JavaScript components using in-house created Fractals framework
- Created web services to retrieve satellite data to display on GUI
- Used Git, Gerrit, Jira in a professional work environment

Summer 2020

Summer Internship – Raytheon, Dulles VA

- 11-week internship as a software engineer on the development team for the MQ-8 Fire Scout ground system
- Implemented new features to the system in JavaScript, C++ and Jade framework
- Learned to use Rational Team Concert (RTC) for configuration management

COMPUTER COURSES

Mobile Software Development - iOS

Spring 2022

- Programmed small apps and projects using Apple's SwiftUI
- Used various third-party API's to create HTTP requests and parse responses
- Implemented database functionality using Core Data to help save, store and load different types of data

Intro to GUI Programming and Graphics

Spring 2022

- Focused on the design and implementation of web-based GUIs
- Implementation methodologies include callbacks, handlers, event listeners, design patterns, layout managers, and architectural models
- Created a unity-based application that applied the foundations for computer graphics including clipping, linear transformations, projections, and modelling

AWARDS Dean's List 2019-2022