Florence Saint-Amand

stamandf@gmail.com

Summary

I am a dedicated front-end and back-end developer with an emphasis on Agile software development. I have worked in various industries such as aerospace, financial services and IoT home automation. Notably, as a software engineer at the Canadian Space Agency during the development of the Mobile Servicing System (MSS), a sophisticated robotics suite which still plays a critical role in the assembly, maintenance, and resupply of the International Space Station. In addition, I worked as a Security Officer for the Radarsat-2 satellite program with Top Secret clearance.

My past experience has given me a wide range of skills from research, analysis, creating more efficient processes and developing solutions by using the best language and technology to solve a given problem. I am frequently the liaison between business and technical teams, as I am equally comfortable in both spheres. I have an innate ability understanding user needs and communicate that vision to others.

Seeking new challenges to utilize my experience, skills and expertise in developing modern web and mobile applications and Agile best practices to help organizations achieve positive results. Fluent in French and English, both written and spoken.

GitHub: https://stamandf.github.io/

Front End	Back End
React, React Router, Redux, Material-UI, NextJS, jQuery, HTML5, CSS3, ES2016, Sass, Bootstrap.	Node.js, Express, Axios, OAuth 2.0, Crypto-js, Mongo DB, Robo 3T, Mongoose, Socket.io, Firebase, MySQL, Oracle, SQL Server.
UX-UI tool	**DevOps**
Balsamiq, Sizzy.	Azure, AWS, Bitbucket, Git, GitHub, Heroku, TeamCity.
Methodologies	**Test frameworks**
Agile, Scrum, BDD, TDD.	Jest, Mocha, Chai, Expect, Supertest.
Tools	**Platforms**
Webpack, ESLint, Babel, npm, yarn, JIRA, Confluence, Postman, Swagger, TestRail, Redmine.	iOS, Android, OS X, Linux, Windows.
Languages	**Collaboration Tools**
JavaScript, HTML5, CSS3, C/C++, Perl, Bash, Java, SQL.	Slack, Jira, Confluence.

Professional Experience

CARDINAL CONSULTANTS INC.   **April 2018 – Present**
Full Stack Web Developer (consultant)
Web Application development
- Analyse, design and develop responsive web applications using React, Redux, HTML5, CSS3, SCSS, node.js, REST API, express.js and other technologies for various clients.

SUN LIFE FINANCIAL   **November 2017 – April 2018**

Agile Dev Test Engineer, Testing Centre of Excellence

Perform testing duties for my Sun Life App

- Analyse, design and develop test cases and automated test scripts using HP UFT/ALM Framework. Participate in a pilot program to develop automated test scripts with Appium.

KINESSOR   **February 2017 – October 2017**

SCHNEIDER ELECTRIC

Validation and Verification Specialist for Wiser Cloud (Home Automation & Energy Management)

The Wiser Cloud platform supports the connection and control of Hubs, devices and iTRVs.

- Analyse, design and develop automated API tests using Node.js and Mocha Test Framework. Perform integration testing between iOS, Cloud, Hub and iTRVs.

INSUM SOLUTIONS INC.   **January 2015 - February 2017**

Quality Assurance Manager

Restructured QA methodologies and best practices to drive efficiency and transparency. Introduced TestRail and JIRA as the new QA platform to promote greater collaboration and integration across projects and departments. Helped in the creation of comprehensive test cases, test plans and executive reports. Lead the effort to automate the generation of test data sets.

SRG International   **September 2014- January 2015**

Quality Assurance Consultant

Perform Functional testing and Analysis of software products in a software start-up company. Analyse and define use cases, test scenarios and test cases. Perform cross-browser and cross-platform testing.

COZMICFLO ACCESSORIES   **2012- 2014**

Entrepreneur

Put into market a luggage accessory line for travellers. Design and manufacture products. Negotiated with suppliers overseas and retailers.

MONTRÉAL EXCHANGE INC.   **2010-2012**

Software Test Analyst

Perform functional, usability and regression testing on Linux environments to control the quality of the development, deployment and maintenance of the Canadian Derivative Clearing Corporation (CDCC) SOLA® Clearing platform and of the Investment Industry Association of Canada (IIAC) infrastructure for Central Counterparty Clearing of Repurchase Agreements (Repos).

- Analyse high-level design and user business requirements to plan test scenarios and test cases.
- Write test scripts in Excel to be imported and executed on HP QTP. Identify and report software bugs.

CIBC GLOBAL ASSET MANAGEMENT   **2008-2010**

Portfolio Administrator in Investment Accounting

Support portfolio managers, brokers, traders and custodians during key stages of the trade lifecycle. Analyse and reconcile cash and assets. Produce FX transactions (FOREX) of international currencies, portfolio evaluation and performance. Analyse and resolve trade settlement problems on international markets.

CANADIAN SPACE AGENCY (CSA)   **1999-2004**
Ground Segment Software Engineer and Security Officer for RADARSAT-2 satellite (2002-2004)

Perform Threat and Risk Assessments. Define RADARSAT-2 Satellite security strategies and requirements for the protection of Communication Security (COMSEC) Cryptographic keying material during Spacecraft production, and Satellite Mission Operations. Develop RADARSAT-2 Ground Segment Network Security Policy. Manage tasks between the Communication Security Establishment (CSE) and the Canadian & International Industrial Security Directorate (CIISD) with respect to planning Cryptographic Key Management during Satellite pre-launch, post-launch and Mission Operations.

Lead Software Engineer, Canadarm2 for the International Space Station Program (1999-2002)
Manage the development and delivery of flight software systems for the Canadian robotics contribution to the International Space Station (ISS) program. Monitor software system development and produce progress reports. Investigate software system issues. Facilitate technical meetings within CSA, and externally with CSA prime contractor MacDonald Dettwiler Space and Advanced Robotics (MDA) and International Partner National Aeronautics and Space Administration (NASA).

- Analyse, specify and review flight software requirements for the Space Station Remote Manipulator System (SSRMS) Arm Control Software, the Mobile Remote Servicer Base System (MBS) Computer Unit Software and the Special Purpose Dextrous Manipulator (SPDM) Control Software.
- Author, review, recommend and approve engineering changes within DOD-STD-2167A, MIL-STD-498 and MIL-STD-1553 derived software standards and procedures.

SPAR AEROSPACE LIMITED   **1997-1999**
Software Quality Assurance Engineer
Assure the quality of the flight software systems of the Space Station Remote Manipulator System (SSRMS) and the Robotic Work Station (RWS). Ensure that quality standards and procedures DOD-STD-2167A, MIL-STD-498 and MIL-STD-1553 are adhered to.

- Plan, design, develop and execute scenarios/cases/scripts in the context of automated unit and integration testing: Control flow testing, data flow testing, branch testing, path testing, statement coverage and decision coverage. Test tools: AdaTEST95, Cantata++.
- Identify and report design and structural problems. Monitor product defects.
- Participate in technical meetings and support software development process, product audits, reviews, and evaluations: requirements, design, code peer reviews and walkthroughs.

LES ÉDITIONS TRANSCONTINENTAL INC. & VASCO DESIGN   **1995-1997**
Web Developer/ Webmaster

Education
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Bachelor of Science in Computer Science, **Université de Montréal**   **1995**
Bachelor of Commerce in Finance and Marketing, **Concordia University - John Molson School of Business**
(60 credits)   **2005-2008**

Training
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- Build Responsive Real-World Websites with HTML5 and CSS3 **2019**
- The Complete Node.js Developer Course (on-line course on Udemy) **2019**
- The Complete React Developer Course w/ Hooks and Redux (on-line course on Udemy) **2019**
- The Modern React Bootcamp w/ Hooks, Context, NextJS, Router (on-line course on Udemy) **2019**
- Advanced CSS and Sass: Flexbox, Grid, Animations and More! **2019**
- Machine Learning by Andrew Ng (on-line course at *Stanford University*) **2014**

Award

The Lyndon B. Johnson Space Center (JSC) Group Achievement Award, National Aeronautics and Space Administration (NASA), 2001