NATHAN ESCANDOR

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SOFTWARE DEVELOPER

Software Development | Databases & Web Storage | System Implementation

Innovative, adaptable, and proactive **Software Developer** with 4+ years of combined experience in using both Frontend and Backend programming technology. Eager, driven, and passionate about creating robust software applications and scalable solutions to drive defined business values. Demonstrating exceptional communication skills, the ability to connect with cross-functional teams (Development, QA, Design), and the ability to relay technical concepts to non-technical users and stakeholders.

- Bilingual (English, French)
- Documentation
- API Services
- Business Analysis
- Adaptability
- Team Collaboration
- Testing & Deployment
- Web Content Management
- Requirements Gathering

TECHNICAL SKILLS
- **Operating Systems:** Windows, Linux (Ubuntu, CentOS), MacOS, Virtual Machines
- **Programming:** HTML5, CSS3, JavaScript (TypeScript, Node, React, Jest/Enzyme), Python (FastAPI), R
- **Database & Database Management:** Azure Blob Storage, MySQL, MongoDB
- **Continuous Integration:** Git (Github), Azure Pipelines, Jira, Docker, Jenkins
- **Additional Tools & Proficiencies:** Storybook prototyping, Material UI, Sentry.io, Shell scripting

CAREER PROGRESSION

SEEQUENT • Calgary, AB • Mar 2020 – Nov 2021
The company provides software solutions for use in geological mining and various forms of engineering. Worked in a part of the company that specializes in web visualization and management of geological data.

Software Developer - *Frontend (React/TypeScript) and Backend (Python)*
Reported to the frontend UI pod's Software Lead. Additionally, collaborated with 2 other pods (3d visualization and networking), as well as a design team to translate wireframes and design documents into React components. Later, joined the networking pod and reported to their Software Lead.

- Collaborated with colleagues on a React web app that receives data from a shim, allowing users to view, modify and compare their data in a browser, rather than the company's legacy Windows desktop application.
- Demonstrated attention to detail by writing robust unit tests, maintaining a high standard of UI responsiveness, and contributing to code reviews.
- Worked with the Design Team to implement and adjust modular Storybook components from wireframes, allowing for rapid prototyping of new features.
- Consumed APIs to implement frontend features such as user comments, a slicing tool, scale bar, sliders, drillhole filters, and texture selectors.
- Coordinated with a backend team to design and implement a Python FastAPI microservice that uploads and retrieves 'scene data' from Azure Blob Storage, allowing users to share a snapshot of their session with colleagues in their organization, or publicly via a URL.
- Integrated and tuned Sentry.io for the Python microservice to allow for error monitoring and tracking.

ARTERYS • Calgary, AB • May 2017 – Jul 2019
The company is the world's first online provider of a cloud-based medical imaging platform that was created to facilitate the global advancement of medicine through Data, Artificial Intelligence, and Technology.

Junior Software Developer
Reported to the Software Development Manager and the Software Lead/Scrum Master. Additionally, collaborated with a team of Developers, Designers, QA (Quality Assurance) Testers and IT Leads located in Calgary, Toronto and Paris.

- Collaborated with four interdisciplinary development teams (Protected Health Information, Cardiac, Oncology and Frontend Architecture) to implement new analysis features for a web-based medical imaging application.
- Provided updates to the MEAN (MongoDB, ExpressJS, AngularJS and Node) code base, testing and deploying code for the imaging application.
- Maximized the application's efficiency, data quality, operability and scope by incorporating best practices that complied with FDA regulations.
- Contributed to a migration plan to convert the company's Angular.js platform to Vue using intermediary libraries, thus avoiding issues stemming from Angular.js's deprecation.
- Assisted the Software Development Manager with the onboarding of software interns and with other duties as assigned.

DE KONING LABORATORY, UNIVERSITY OF CALGARY • Calgary, AB • May 2013 – Mar 2016
The facility is a computational genomics and evolutionary genetics lab whose primary focus is in evaluating and quantifying the consequences of genomic sequence variations in humans, primates and in cancer.

Undergraduate Research Assistant
Earned a 4.0 for the thesis project, "A Survey of Recurrent Amino Acid Substitution in Cancer Exomes." Additionally, collaborated with graduate students and post-doctoral researchers to develop bioinformatics simulation programs and analysis platforms.

- After identifying research requirements, applied bash, Perl, and R scripting skills to develop modular pipelines to analyze and visualize large genetic datasets.
- Organized and led a monthly meeting group to discuss new bioinformatics technologies and methods.
- Gathered, analyzed, and maintained data while accurately documenting research findings.
- Analyzed and repurposed code published in journal articles to meet the lab's specific needs.
- Demonstrated effective communication, problem-solving, and time management skills through successful presentations and discourses in lab meetings, department retreats, and national genetics conferences.
- Performed other administrative duties as assigned.

EDUCATION

Bachelor of Health Sciences (BHSc.), Bioinformatics (Honors)
University of Calgary • Calgary, AB   2017