François M. Demoullin

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Nationality: Luxembourgish
Work authorization: EU and Canada

Education

University of British Columbia, Vancouver, Canada
B.Sc., Major in Computer Science (GPA: 4.30 on 4.33 scale)
Expected graduation: June 2017

University of California, Davis, CA, USA (exchange year)

Experience

Research Assistant   **September 2015 - Present**

- UC Davis networking research under the supervision of **Dr. Norm Matloff**
- Implementation of multi-threaded Server using Python

GPGPU Lab Apprentice   **September 2015 - Present**

- Insights into Image Processing and Parallel algorithms research under supervision of **Dr. John Owens**

Squeakshark.com - Cofounder   **December 2014 - Present**

- Launch of Squeakshark, a service that helps up and coming artists boost their social media presence
- Full-stack developer: worked on web front end (JavaScipt, HTML, CSS, jQuery) and backend (PHP)

Computer Science Teaching Assistant   **September 2014 – January 2015**

- Computer Science class on HTML, JavaScript and UNIX
- Responsible for weekly labs and office hours

Ville de Luxembourg (City Government) - Intern   **July 2014**

- Web application using ZK, a Java based web framework
- Implementation of online recruitment platform

BNP Paribas (4th largest bank worldwide) – Software Architecture Intern   **June 2014**

- Studied large scale log-management solutions in banking sector
- Proposed solution: ElasticSearch in combination with Kibana and a custom uniform log syntax
- Outcome: Significant reduction of bug detection time and increased data security

Projects

Particle System on GPU

- Parallelized GPU implementation, supporting the rendering of up to 5 million particles
- Using C++, the OpenGL graphics API and GLSL as the shader language
- https://bitbucket.org/FrancoisDemoullin

Tweet Map Web Application

- Web application allowing users to plot any Twitter tweets on a world map
- Using Ruby on Rails as the Web Framework, deployment using Heroku
- http://tweet-maps.herokuapp.com/

Skills

Programming languages
- C++, Java, JavaScript, GLSL, HTML5, CSS
- Familiar with: C, Python, Ruby on Rails, Drupal7, PHP

Languages
English, French, German, Luxembourgish and Spanish