

Eric Schaal

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EDUCATION

- **McGill University** Montreal, QC, Canada
Bachelor of Science in Computer Science; GPA: 3.42
Sept. 2015 – April 2018
- **Ecole Polytechnique Fédérale de Lausanne (EPFL)** Lausanne, Switzerland
Bachelor of Mechanical Engineering; [incomplete]
Sept. 2014 – July 2015
- **Lycée Français Charles de Gaulle** London, United Kingdom
French Scientific Baccalaureate; 18.21/20; Highest Honors
June 2014

EXPERIENCE

- **NXTSENS Microsystems** Montreal, QC, Canada
Full Stack Software Developer
July 2017 - Present
 - **My Role:** I am developing a React-Native application capable of receiving, processing and displaying critical health data from a BLE central and uploading it to a FHIR conformant server.
 - **React-Native:** React Native lets you build mobile apps in a declarative way using JavaScript.
 - **Bluetooth Low Energy (BLE):** Bluetooth Low Energy is a wireless personal area network technology intending to provide considerably reduced power consumption.
 - **Fast Healthcare Interoperability (FHIR):** Fast Healthcare Interoperability Resources is a standard for exchanging healthcare information electronically.
- **Yuma** Montreal, QC, Canada
Software Developer Intern
April 2017 - July 2017
 - **My Role:** I developed a scalable bulk email service using RabbitMQ capable of sending thousands of emails in a few seconds.
 - **RabbitMQ:** RabbitMQ is an open source message broker software that implements the Advanced Message Queuing Protocol.
- **Orange S.A.** Antananarivo, Madagascar
Software Developer Intern
June 2016 - August 2016
 - **My Role:** I deployed a complete software development environment (Project Management, Bug tracker, VCS, Dependency Caching, CI platform) to facilitate employee collaboration and project development in order to boost company productivity. I also attended technical meetings with Facebook and Orange engineers about the launch of Internet.org in Madagascar.
 - **Internet.org by Facebook:** Internet.org is a partnership between Facebook and six companies that plans to bring affordable access to selected Internet services to less developed countries.

COURSE PROJECTS

- **Booker:** Fault-tolerant distributed booking system with transaction and replication support.
- **Cookie Shell:** Shell built from scratch with pipes, I/O redirection, job management and history.
- **Mancala AI Player:** Das Bohnenspiele AI player using Alpha-Beta Pruning.

PERSONAL PROJECTS

- **Live Docker Container Migration:** Live game server migration from one data center to another without downtime.
- **PleskDynDNS:** Dynamic DNS client and server for Plesk Control Panel written in Go.
- **Travl [Ongoing startup project]:** A crowd-sourced and social travel agent that helps users build and organize trips based on others' experiences. Built on Meteor.js.

PROGRAMMING SKILLS

- **Languages:** Java, JavaScript, C, C++, Go, C#, F#, MATLAB
- **Technologies:** React, React-Native, Node.js, Meteor.js, Spring.io, Google Cloud, Kubernetes, Docker, Neo4j