## Alexander Sedgwick Aubuchon

114 Hemenway St Apt 3, Boston, MA 02115

CONTACT Phone: +1 (978) 894-6108 GitHub: https://github.com/a-lxe INFORMATION Mail: alex@aub.dev LinkedIn: https://linkedin.com/in/a-lxe

EDUCATION Northeastern University Boston, MA

BS in Computer Science, 3.8/4.0 GPA September 2015 - Expected Jan 2020

Coursework: Advanced Algorithms, Theory of Comp., NLP, Quantum Mechanics, Electronics

Extracurriculars: Tutor for Discrete Structures (2017), Upperclassman Tutor (2016)

WORK Google
EXPERIENCE Software Engi

Sunnyvale, CA

Software Engineer Intern, Node.js Team

May 2019 - August 2019

 $Node.js, \ Typescript, \ C++$ 

• Built a faster Node.js dependency loader. Made contributions to Node.js core.

• Worked on API design of ESM Loader Hooks in Node.js core.

ASICS Digital Boston, MA

Data Engineer Coop, Platforms

January 2019 - May 2019

Python, SQL, AWS

• Diagnosed and mitigated urgent data collection breakages.

• Made significant automation and diagnostic improvements to AWS based ETL pipelines.

CERN, Compact Muon Solenoid

Geneva, Switzerland

Software Engineer & Data Analyst Coop, EMTF

January 2018 - August 2018

Python, React, Docker, OpenStack, C++, ROOT

• Built a platform for statistical tests comparing data quality between accelerator runs.

• Analyzed EMTF data and predicted post HL-LHC detector performance.

Draper Laboratories

Cambridge, MA

Software Engineer Coop, Machine Intelligence

January 2017 - August 2017

C#, Python, Matlab

• Implemented the software interface to a neuro-stimulation experimentation device.

• Performed research into the novel uses of RF sensors on the emissions of electronic devices.

MIT Media Lab

Cambridge, MA

Assistant Researcher, Changing Places

July 2016 - January 2018

Python, scikit, C#, Unity

• Researched ML models for quickly predicting the traffic and solar potential of a model city.

• Developed a Unity/C# application for real-time visualization of the model city.

Publications Classification of Electronic Devices and Software Processes via Unintentional

Electronic Emissions With Neural Decoding Algorithms — link — March 2019

Laura J. Mariano, Alexander Aubuchon, Troy Lau, Onur Ozdemir, Tomo Lazovich, John Coakley

Real-time Machine Learning Prediction of an Agent-Based Model for Urban Decision-making (Extended Abstract) — link — July 2018

Yan Zhang, Arnaud Grignard, Kevin Lyons, Alexander Aubuchon, Kent Larson

Computer Languages: Extensive- Python; Typescript; Versed- C#; C/C++; Racket; Java; Rust

Skills WebDev: Node.js/npm; React; webpack; HTML/CSS

Tools: Unity; Mathematica; Photoshop; Blender (CAD); ROOT

Misc: Git; (Arch)Linux; Vim; LATEX

Interests Gaming; Rock Climbing; Electronics