

Alexander Sedgwick Aubuchon

CONTACT INFORMATION	Mail: alex@aub.dev Phone: +1 (978) 894-6108	GitHub: https://github.com/reasonablytall LinkedIn: https://linkedin.com/in/reasonablytall
EDUCATION	Northeastern University <i>BS in Computer Science, 3.9/4.0 GPA</i> Coursework: Advanced Algorithms, Networks, Theory of Comp., NLP, Quantum Mechanics	Boston, MA <i>September 2015 - Dec 2019</i>
WORK EXPERIENCE	Stripe <i>Software Engineer Intern, Orchestration Team</i> <i>Golang, Kubernetes</i> <ul style="list-style-type: none">Built instance autoscaling for our Kubernetes cluster saving \$1MM per year and significantly reducing infrastructure toil for product teams. Google <i>Software Engineer Intern, Node.js Team</i> <i>Node.js, Typescript, C++</i> <ul style="list-style-type: none">Made contributions to Node.js core and prototyped a faster Node.js dependency loader.Worked on API design of ESM Loader Hooks in Node.js core. ASICS Digital <i>Data Engineer Coop, Platforms</i> <i>Python, SQL, AWS, Terraform</i> <ul style="list-style-type: none">Diagnosed and mitigated urgent data collection breakages.Made significant automation and diagnostic improvements to AWS based ETL pipelines. CERN, Compact Muon Solenoid <i>Software Engineer & Data Analyst Coop, EMTF</i> <i>Python, React, Docker, OpenStack, C++, ROOT</i> <ul style="list-style-type: none">Built a platform for statistical tests comparing data quality between accelerator runs.Analyzed EMTF data and predicted post HL-LHC detector performance. Draper Laboratories <i>Software Engineer Coop, Machine Intelligence</i> <i>C#, Python, Matlab</i> <ul style="list-style-type: none">Implemented the USB 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 <i>Assistant Researcher, Changing Places</i> <i>Python, scikit, C#, Unity</i> <ul style="list-style-type: none">Developed ML models and Unity/C# worlds for quickly predicting and displaying the traffic and solar potential of a model city.	San Francisco, CA <i>January 2020 - April 2020</i> Sunnyvale, CA <i>May 2019 - August 2019</i> Boston, MA <i>January 2019 - May 2019</i> Geneva, Switzerland <i>January 2018 - August 2018</i> Cambridge, MA <i>January 2017 - August 2017</i> Cambridge, MA <i>July 2016 - January 2018</i>
PUBLICATIONS	Classification of Electronic Devices and Software Processes via Unintentional Electronic Emissions With Neural Decoding Algorithms — link — <i>March 2019</i> <i>Laura J. Mariano, Alexander Aubuchon, Troy Lau, Onur Ozdemir, Tomo Lazovich, John Coakley</i> Real-time Machine Learning Prediction of an Agent-Based Model for Urban Decision-making (Extended Abstract) — link — <i>July 2018</i> <i>Yan Zhang, Arnaud Grignard, Kevin Lyons, Alexander Aubuchon, Kent Larson</i>	
COMPUTER SKILLS	Extensive: Linux, Git, Golang, Rust, Python, Typescript Versed: L ^A T _E X, C, C++, Lisp, Node.js, React	
INTERESTS	Gaming; Rock Climbing; Electronics	