Jack X. Britton

Senior Software Engineer

jackbritton.me
jackxbritton@gmail.com

Education

- **University of Maine** — Orono, ME
  B.S. in Computer Engineering; Minor in Math; GPA: 3.70/4.00 — *2015 - 2019*

Experience

- **HUMAN (humansecurity.com) (acquired by Goldman Sachs)** — New York, NY
  Software Engineer — *2019 - Present*
  - **Fastly Product Integration for Application Integrity**: The HUMAN Fastly integration for Application Integrity is a Fastly Wasm service that stops bots on the web. Rust.
  - **Android Fraud Pipeline**: Downloads and statically analyzes Android apps. This data is consumed by the Detection team at HUMAN. I have worked full-time on the project since its infancy, and two years later, it processes more than 8,000 apps per day. Apache Airflow, Snowflake, S3, SQS, DynamoDB, Python3.
  - **Streaming Decision Platform**: Processes messages from HUMAN's bot decision engine for use in web analytics platforms like Google and Adobe Analytics. I led the design and engineering phase of this project, with valuable support and feedback from my team. Benthos, Kafka, Go, Python3.
  - **Docker Town**: Docker Town launches automated staging environments for the Dashboard team at HUMAN. I created Docker Town as an intern at HUMAN, and it has been in regular use by the Dashboard team ever since. GitLab, Docker, Go.
- **Medsender** — New York, NY
  Software Engineering Intern — *2018*
  - **Windows Client**: The Medsender Windows client connects healthcare workers with Medsender's EMR system. JavaScript, C++, the Microsoft Win32 API.
  - **EMR Service**: Pipeline for processing medical records. MySQL, Redis, Go.
- **Advanced Structures & Composites Center** — Orono, ME
  Student Web Developer — *2016 - 2018*
  - **MyComposites**: MyComposites is used internally at the Composites Center to track employee hours and manage expenses. PHP, JavaScript, MySQL.
  - **MyComposites Mobile**: MyComposites Mobile is a mobile interface to MyComposites. React Native.
- **SEANET Lab** — Orono, ME
  Research Assistant — *2017 - 2018*
  - **OpenFOAM**: OpenFOAM is an open source computational fluid dynamics toolbox written in C++. In this role, I helped port graduate students' MATLAB scripts to OpenFOAM applications.
- **Kepware Technologies** — Portland, ME
  Software Engineering Intern — *2017*
  - **OPC UA QuickClient**: The OPC UA QuickClient is a tool for testing implementations of the OPC UA protocol. A team of interns (myself included) designed and developed the QuickClient over the summer of 2017.

Awards and Certificates

- **Kepware Technologies Scholarship** — PTC
  Recognizes excellence in engineering. — *2018*
- **2nd Place in GDG Bronx 2018 Hackathon** — Google Developer Group
  See github.com/jackxbritton/hn-reddit-actions-on-google. — *2018*
- **Information Technology Scholarship** — MTUG - Systems Engineering
  Recognizes excellence in an IT-oriented field. — *2017*
- **Certificate in Machine Learning** — Coursera
  Recognizes completion of Stanford University's 12-week "Machine Learning" course. 96.5%. — *2016*