

Ian Hammerstrom

<https://www.linkedin.com/in/ihammerstrom/>

 Poster scanning app: <https://localposters.org>

 Folding bike company: <https://jcat.bike>

Overview	Software engineer with experience across the technological stack, ranging from writing low level networking daemons in Python for Linux, to Golang microservices on Kubernetes, backend development in Kotlin/Java, to full stack web applications using Python (Flask and Django REST Framework) and TypeScript/JavaScript (React.js/React Native). Developed for mainly Linux, often using Docker, on both AWS and VPS's.
Technical knowledge	<ul style="list-style-type: none"> • Python, TypeScript/JavaScript/React, Java/Kotlin, C & C++, Bash, Golang, C# • Linux development and automation • Computer security / Threat Modeling • Docker containers • AWS • Computer Networking • Algorithms & data structures • Machine learning and applied data science • Project management • Basic circuit design and microcontroller programming • Git, Slack, Microsoft Teams, Zoom, Trello, Jira, Confluence
Education	B.S. Computer Science (Data Science focus), Western Washington University - June 2016 ReactJS Quantum Degree, Next Academy - July 2019
Company	Roles
2 Startups / Other Projects 6/2022 - current (Remote)	<ul style="list-style-type: none"> • Founder / Software Engineer - LocalPosters <ul style="list-style-type: none"> • Founded LocalPosters, a company / app to help people translate event posters / wedding invitations / written events in any form to calendar events: https://localposters.org/ • Wrote initial code (Python Django / React Native TypeScript / PostgreSQL), and later hired a Software Engineer full time to speed development. • Founder / Software Engineer - EasySignal <ul style="list-style-type: none"> • One of a four person founding team which designed/implemented/launched a financial recommendation subscription service. Has since been shut down due to low margins. Python/React.js/HTML/CSS/MongoDB. • (Other projects: Learned Spanish to a C1 level, DIY'd duplex into a triplex, and designed/built a backyard cabin)
Amazon 10/2020 - 6/2022 (Remote)	<ul style="list-style-type: none"> • Software Engineer II <ul style="list-style-type: none"> • Designed and implemented the dataflow of the per-item Prime Badge data from Amazon.com core services to the Buy With Prime checkout page. (On a Java/Kotlin service on AWS ECS) (https://buywithprime.amazon.com/) • Designed and implemented the customer address integration between Amazon Retail and Buy with Prime, conforming to all business and legal/privacy GDPR/CCPA requirements (Java/Kotlin on AWS ECS) • Created Threat Model Assessments for both PreCheckout and Checkout Prime core teams.
Microsoft 3/2020 - 10/2020 (Remote)	<ul style="list-style-type: none"> • Software Engineer <ul style="list-style-type: none"> • Working in C#/.NET on Microsoft Azure's Privileged Identity Management team, worked on providing role-based access control using time-based and approval-based role activations to control resources in the Azure cloud. • Designed and implemented multi-stage just-in-time approvals for Azure's role-based access control.
Tableau Software 6 month contract 9/2019 - 3/2020	<ul style="list-style-type: none"> • Software Engineer Contractor <ul style="list-style-type: none"> • Working as a very full-stack engineer on a web application with a backend in Python (Django REST Framework), frontend in Javascript (React.js), used to run tests in Docker containers on AWS. • Designed/implemented/launched a test finding service that builds a dependency graph in Neo4j from a Python codebase and queries this graph to find and launch any tests that are relevant for a given set of changed files in a Gitlab merge request. Built using Docker as part of a pipeline in Gitlab.
jcat.bike 3/2019 - 4/2022	<ul style="list-style-type: none"> • Founder / Software Engineer <ul style="list-style-type: none"> • Founded a folding bicycle company (https://jcat.bike) while on a year-long overland journey from Scotland to Singapore. • Involved meeting and working with a factory in Tianjin, China, creating and maintaining a full stack Python Flask/React web app, creating advertising content, and direct-to-customer sales - both shipped and in-person in Seattle.
F5 Networks 6/2016 - 6/2018	<ul style="list-style-type: none"> • Software Engineer II (9/2017 - 6/2018) <ul style="list-style-type: none"> • Worked on a growing team creating a product composed of microservices written in Golang in a Docker/Kubernetes environment on AWS. • Designed and implemented a duplicate address detection daemon in Python for the BIG-IP Linux OS. • Worked as a "Security Ninja" to help review Threat Model Assessments and software designs for potential vulnerabilities. • Software Engineer I (9/2016 - 9/2017) <ul style="list-style-type: none"> • Worked on a team developing a Python Linux daemon to synchronize configuration data between a database and Layer 3 routing daemons. • Various software fixes in a very large C codebase. • Software Engineer Intern (6/2016 - 9/2016) <ul style="list-style-type: none"> • Designed and implemented a transcompiler to convert customer routing configurations from legacy to a modern format.