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https://www.linkedin.com/in/ihammerstrom/
Poster scanning app: https://localposters.org
Folding bike company: https://jcat.bike

# Ian Hammerstrom

| 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) with MongoDB or PostgreSQL.<br>Developed for mainly Linux, often using Docker, on both AWS and VPS's. |
|---|---|
| **Technical knowledge** | • **Python, TypeScript/JavaScript/React, Java/Kotlin, C & C++, Bash, Golang, C#**<br>• Linux development and automation<br>• Computer security / Threat Modeling<br>• Docker containers<br>• AWS<br><br>• Computer Networking<br>• Algorithms & data structures<br>• Machine learning and applied data science<br>• Project management<br>• Basic circuit design and microcontroller programming<br>• Git, Slack, Microsoft Teams, Zoom, Trello, Jira, Confluence |
| **Education** | **B.S. Computer Science (Data Science focus), Western Washington University** - June 2016<br>ReactJS Quantum Degree, Next Academy - July 2019 |

| Company | Roles |
|---|---|
| **2 Startups / Other Projects**<br>6/2022 - current<br>(Remote) | • **Founder / Software Engineer ( + Manager & Project Manager) - LocalPosters**<br>  • Founded LocalPosters, a company / app to help people translate event posters / wedding invitations / written events in any form to calendar events: https://localposters.org/<br>  • Wrote initial code (Python Django / React Native TypeScript / PostgreSQL), and later hired a Software Engineer full time to speed development.<br>• **Founder / Software Engineer - EasySignal**<br>  • 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.<br>• (Other projects: Learned Spanish to a C1 level, DIY'd duplex into a triplex, and designed/built a backyard cabin) |
| **Amazon**<br>10/2020 - 6/2022<br>(Remote) | • **Software Engineer II**<br>  • 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/)<br>  • 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)<br>  • Created Threat Model Assessments for both PreCheckout and Checkout Prime core teams. |
| **Microsoft**<br>3/2020 - 10/2020<br>(Remote) | • **Software Engineer**<br>  • 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.<br>  • Designed and implemented multi-stage just-in-time approvals for Azure's role-based access control. |
| **Tableau Software**<br>6 month contract<br>9/2019 - 3/2020 | • **Software Engineer Contractor**<br>  • 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.<br>  • 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**<br>3/2019 - 4/2022 | • **Founder / Software Engineer**<br>  • Founded a folding bicycle company (https://jcat.bike) while on a year-long overland journey from Scotland to Singapore.<br>  • 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**<br>6/2016 - 6/2018 | • **Software Engineer II (9/2017 - 6/2018)**<br>  • Worked on a growing team creating a product composed of microservices written in Golang in a Docker/Kubernetes environment on AWS.<br>  • Designed and implemented a duplicate address detection daemon in Python for the BIG-IP Linux OS.<br>  • Worked as a "Security Ninja" to help review Threat Model Assessments and software designs for potential vulnerabilities.<br>• **Software Engineer I (9/2016 - 9/2017)**<br>  • Worked on a team developing a Python Linux daemon to synchronize configuration data between a database and Layer 3 routing daemons.<br>  • Various software fixes in a very large C codebase.<br>• **Software Engineer Intern (6/2016 - 9/2016)**<br>  • Designed and implemented a transcompiler to convert customer routing configurations from legacy to a modern format. |