

# Ian Hammerstrom

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

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

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

<b>Overview</b>	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.
<b>Technical knowledge</b>	<ul style="list-style-type: none"> <li>• <b>Python, TypeScript/JavaScript/React, Java/Kotlin, C &amp; C++, Bash, Golang, C#</b></li> <li>• Linux development and automation</li> <li>• Computer security / Threat Modeling</li> <li>• Docker containers</li> <li>• AWS</li> <li>• Computer Networking</li> <li>• Algorithms &amp; data structures</li> <li>• Machine learning and applied data science</li> <li>• Project management</li> <li>• Basic circuit design and microcontroller programming</li> <li>• Git, Slack, Microsoft Teams, Zoom, Trello, Jira, Confluence</li> </ul>
<b>Education</b>	<b>B.S. Computer Science (Data Science focus), Western Washington University</b> - June 2016 ReactJS Quantum Degree, Next Academy - July 2019
Company	Roles
<b>2 Startups / Other Projects</b> 6/2022 - current (Remote)	<ul style="list-style-type: none"> <li>• <b>Founder / Software Engineer - LocalPosters</b> <ul style="list-style-type: none"> <li>• Founded LocalPosters, a company / app to help people translate event posters / wedding invitations / written events in any form to calendar events: <a href="https://localposters.org/">https://localposters.org/</a></li> <li>• Wrote initial code (Python Django / React Native TypeScript), and later hired a Software Engineer full time to speed development.</li> <li>• Launched in beta on iOS and Android and am currently collecting/implementing feedback.</li> </ul> </li> <li>• <b>Founder / Software Engineer - EasySignal</b> <ul style="list-style-type: none"> <li>• 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.</li> </ul> </li> <li>• (Other projects: Learned Spanish to a C1 level, DIY'd duplex into a triplex, and designed/built a backyard cabin)</li> </ul>
<b>Amazon</b> 10/2020 - 6/2022 (Remote)	<ul style="list-style-type: none"> <li>• <b>Software Engineer II</b> <ul style="list-style-type: none"> <li>• 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) (<a href="https://buywithprime.amazon.com/">https://buywithprime.amazon.com/</a>)</li> <li>• 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)</li> <li>• Created Threat Model Assessments for both PreCheckout and Checkout Prime core teams.</li> </ul> </li> </ul>
<b>Microsoft</b> 3/2020 - 10/2020 (Remote)	<ul style="list-style-type: none"> <li>• <b>Software Engineer</b> <ul style="list-style-type: none"> <li>• 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.</li> <li>• Designed and implemented multi-stage just-in-time approvals for Azure's role-based access control.</li> </ul> </li> </ul>
<b>Tableau Software</b> 6 month contract 9/2019 - 3/2020	<ul style="list-style-type: none"> <li>• <b>Software Engineer Contractor</b> <ul style="list-style-type: none"> <li>• 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.</li> <li>• 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.</li> </ul> </li> </ul>
<b>jcat.bike</b> 3/2019 - 4/2022	<ul style="list-style-type: none"> <li>• <b>Founder / Software Engineer</b> <ul style="list-style-type: none"> <li>• Founded a folding bicycle company (<a href="https://jcat.bike">https://jcat.bike</a>) while on a year-long overland journey from Scotland to Singapore.</li> <li>• 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.</li> </ul> </li> </ul>
<b>F5 Networks</b> 6/2016 - 6/2018	<ul style="list-style-type: none"> <li>• <b>Software Engineer II (9/2017 - 6/2018)</b> <ul style="list-style-type: none"> <li>• Worked on a growing team creating a product composed of microservices written in Golang in a Docker/Kubernetes environment on AWS.</li> <li>• Designed and implemented a duplicate address detection daemon in Python for the BIG-IP Linux OS.</li> <li>• Worked as a "Security Ninja" to help review Threat Model Assessments and software designs for potential vulnerabilities.</li> </ul> </li> <li>• <b>Software Engineer I (9/2016 - 9/2017)</b> <ul style="list-style-type: none"> <li>• Worked on a team developing a Python Linux daemon to synchronize configuration data between a database and Layer 3 routing daemons.</li> <li>• Various software fixes in a very large C codebase.</li> </ul> </li> <li>• <b>Software Engineer Intern (6/2016 - 9/2016)</b> <ul style="list-style-type: none"> <li>• Designed and implemented a transcompiler to convert customer routing configurations from legacy to a modern format.</li> </ul> </li> </ul>