

# Ian Hammerstrom

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

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

 Seattle-based folding bike company: <https://jcat.bike>

 Updated resume available at: <https://ihammerstrom.github.io/resume/>

<b>Overview</b>	<p>Software engineer with experience across the technological stack, ranging from writing low level L3 and L2 networking daemons in <b>Python on Linux</b>, to containerized Golang microservices on Kubernetes, backend development in Kotlin/Java, to full stack web applications using Python (Flask and Django REST Framework) and TypeScript/JavaScript (<b>React/React Native</b>) with MongoDB or PostgreSQL, often using Docker, on both <b>AWS</b> and VPS's.</p> <p>Experience building new products end to end from absolute 0 to 1, as well as implementing features within large established products. Including experience with mentorship and project management.</p>
<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 OS 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>	<p><b>B.S. Computer Science (Data Science focus), Western Washington University - June 2016</b></p> <p>ReactJS Quantum Degree, Next Academy - July 2019</p>
<b>Company</b>	<b>Roles</b>
<b>2 Startups / Other Projects</b> 6/2022 - current (Remote)	<p><b>Founder / Software Engineer ( + Manager &amp; Project Manager) – LocalPosters</b></p> <ul style="list-style-type: none"> <li>• Founded LocalPosters, an app that converts event posters, wedding invitations, and written events into calendar events using LLMs. Built the initial stack (<b>Python Django, React Native, PostgreSQL</b>) and later hired a full-time engineer. Launched on iOS &amp; Android. <a href="https://localposters.org">https://localposters.org</a></li> </ul> <p><b>Founder / Software Engineer – EasySignal</b></p> <ul style="list-style-type: none"> <li>• Co-founded and launched a financial recommendation subscription service (now shut down due to low margins). (<b>Node.js, React.js, MongoDB</b>)</li> </ul> <p>Other Projects: Learned C1 level of Spanish, DIY'd duplex into triplex, designed/built a backyard cabin.</p>
<b>Amazon</b> 10/2020 - 6/2022 (Remote)	<p><b>Software Engineer II</b></p> <ul style="list-style-type: none"> <li>• Designed and implemented the data flow for per-item Prime Badge data from the core Amazon.com services to the Buy With Prime checkout page (<b>Java/Kotlin, AWS ECS</b>). <a href="https://buywithprime.amazon.com">buywithprime.amazon.com</a></li> <li>• Built the customer address integration between Amazon Retail and Buy With Prime currently used by millions of Prime members, ensuring fulfilling both business and legal (GDPR/CCPA) requirements.</li> <li>• Built front end metrics into the checkout experience in <b>React</b> to surface errors to Buy With Prime dashboards.</li> <li>• Led Threat Model Assessments for PreCheckout and Checkout Prime core teams.</li> </ul>
<b>Microsoft</b> 3/2020 - 10/2020 (Remote)	<p><b>Software Engineer</b></p> <ul style="list-style-type: none"> <li>• Implemented multi-stage approvals for role-based access control (RBAC) for Microsoft Azure Privileged Identity Management (PIM) using C#/NET. <a href="https://learn.microsoft.com/en-us/entra/id-governance/create-access-review#create-a-multi-stage-access-review">https://learn.microsoft.com/en-us/entra/id-governance/create-access-review#create-a-multi-stage-access-review</a></li> </ul>
<b>Tableau Software</b> 6 month contract 9/2019 - 3/2020	<p><b>Software Engineer Contractor</b></p> <ul style="list-style-type: none"> <li>• Built a web application on a two-person team with a <b>Python Django</b> REST Framework backend and <b>React</b> frontend for running tests in <b>Docker on AWS</b>.</li> <li>• Designed and launched a test-finding service that builds a dependency graph in <b>Neo4j</b> from a Python codebase to identify and run relevant tests for changed files in GitLab merge requests. Integrated into a <b>Docker</b>-based GitLab pipeline. Reduced testing time from potentially 2+ hours to as little as 30s for most changes, rather than 2+ hours every time.</li> </ul>
<b>jcat.bike</b> 3/2019 - 4/2022	<p><b>Founder / Software Engineer</b></p> <ul style="list-style-type: none"> <li>• Founded a folding bicycle company while traveling overland from Scotland to Singapore. <a href="https://jcat.bike">https://jcat.bike</a></li> <li>• Worked with a factory in Tianjin, China in person to manufacture the bikes.</li> <li>• Built and maintained a <b>Python Flask/React</b> web app with Stripe checkout API integration.</li> <li>• Managed advertising, direct-to-customer sales, and fulfillment (online and in-person in Seattle).</li> </ul>
<b>F5 Networks</b> 6/2016 - 6/2018	<p><b>Software Engineer II (9/2017 - 6/2018)</b></p> <ul style="list-style-type: none"> <li>• Developed networking microservices in <b>Golang on a Docker/Kubernetes environment in AWS</b>.</li> <li>• Built a duplicate address detection daemon in <b>Python</b> for BIG-IP Linux OS.</li> <li>• Served as a "Security Ninja", reviewing Threat Model Assessments and software designs for vulnerabilities.</li> </ul> <p><b>Software Engineer I (9/2016 - 9/2017)</b></p> <ul style="list-style-type: none"> <li>• Developed a <b>Python</b> daemon to sync configuration data between a database and Layer 3 routing daemons.</li> <li>• Worked on <b>C</b> codebase bug fixes in a large custom Linux OS.</li> </ul> <p><b>Software Engineer Intern (6/2016 - 9/2016)</b></p> <ul style="list-style-type: none"> <li>• Designed and implemented a transcompiler in <b>Python</b> to convert customer routing configurations from legacy to a modern format.</li> </ul>