Ian Hammerstrom

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Updated resume: https://ihammerstrom.github.io/resume/

Overview	Very full stack Software Engineer, with experience ranging from writing low level L3 and L2 networking daemons in **Python** on **Linux**, 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 (**React**/React Native) with MongoDB or PostgreSQL, often using **Docker**, on both **AWS** and VPS's. Including experience integrating LLM's. Experience building and launching 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.
Technical knowledge	• **Python,** TypeScript/JavaScript/React, Java/Kotlin, C & C++, Bash, Golang, C# • Linux OS 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)	**Founder / Software Engineer (+ Manager & Project Manager) – LocalPosters** • Founded LocalPosters, an app that converts event posters, wedding invitations, and written events into calendar events using LLM's. Built the initial stack (**Python Django, React Native, PostgreSQL**) and later hired a full-time engineer. Launched on iOS & Android. https://localposters.org **Founder / Software Engineer – EasySignal** • Co-founded and launched a financial recommendation subscription service (now shut down due to low margins). (**Node.js, React.js, MongoDB**) Other Projects: Learned C1 level of Spanish, DIY'd duplex into triplex, designed/built a backyard cabin.
Amazon 10/2020 - 6/2022 (Remote)	**Software Engineer II** • 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 (**Java/Kotlin, AWS ECS**). buywithprime.amazon.com • 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. • Built front end metrics into the checkout experience in **React** to surface errors to Buy With Prime dashboards. • Led Threat Model Assessments for PreCheckout and Checkout Prime core teams.
Microsoft 3/2020 - 10/2020 (Remote)	**Software Engineer** • Implemented multi-stage approvals for role-based access control (RBAC) for Microsoft Azure Privileged Identity Management (PIM) using C#/.NET. https://learn.microsoft.com/en-us/entra/id-governance/create-access-review#create-a-multi-stage-access-review
Tableau Software 6 month contract 9/2019 - 3/2020	**Software Engineer Contractor** • Built a web application on a two-person team with a **Python Django** REST Framework backend and **React** frontend for running tests in **Docker on AWS**. • Designed/implemented/launched a test-finding service that builds a dependency graph in **Neo4j** from a Python codebase to identify and run relevant tests for changed files in GitLab merge requests. Integrated into a **Docker**-based GitLab pipeline. Reduced testing time from potentially 2+ hours to as little as 30s for most changes, rather than 2+ hours every time.
jcat.bike 3/2019 - 4/2022	**Founder / Software Engineer** • Founded a folding bicycle company while traveling overland from Scotland to Singapore. https://jcat.bike • Worked with a factory in Tianjin, China in person to manufacture the bikes. • Built and maintained a **Python Flask/React** web app with Stripe checkout API integration. • Managed advertising, direct-to-customer sales, and fulfillment (online and in-person in Seattle).
F5 Networks 6/2016 - 6/2018	**Software Engineer II (9/2017 - 6/2018)** • Developed networking microservices in **Golang on a Docker/Kubernetes environment in AWS**. • Built a duplicate address detection daemon in **Python** for BIG-IP Linux OS. • Served as a "Security Ninja", reviewing Threat Model Assessments and software designs for vulnerabilities. **Software Engineer I (9/2016 - 9/2017)** • Developed a **Python** daemon to sync configuration data between a database and Layer 3 routing daemons. • Worked on **C** codebase bug fixes in a large custom Linux OS. **Software Engineer Intern (6/2016 - 9/2016)** • Designed and implemented a transcompiler in **Python** to convert customer routing configurations from legacy to a modern format.