Robert Helmer
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Professional Experience

Senior Staff Software Engineer – Mozilla Corporation *(01/2020 – Present)*

- **Mozilla Monitor**: Led technical development, launched subscription features, migrated site to Next.js, integrated with experimentation system, and enabled continuous deployment.
- **Mozilla Rally**: Created WebExtension-based research studies, developed Firebase web app, and collaborated with Stanford, Princeton, and The Markup.

Staff Software Engineer – Mozilla Corporation *(06/2015 – 01/2020)*

- **Experiments Program**: Led Firefox client engineering, integrated privacy-preserving Telemetry (Prio).
- **Firefox Contributions**: Resolved 100+ issues, led "Go Faster" initiative, improved about:addons and about:crashes, enhanced WebExtensions API, and prototyped Rust/React-based add-ons manager.

Senior Web Developer – Mozilla Corporation *(09/2010 – 06/2015)*

- Led high-volume crash reporting system (Socorro), migrated from PHP to Django, moved infrastructure to AWS, and improved Etherpad open-source project.

VP of Technology – CustomWeather *(06/2008 – 09/2010)*

- Managed AWS-powered distributed weather mapping, improved Java-based real-time weather services, automated deployments, and built PostgreSQL-based reporting systems.

Open Source Contributions

- **Firefox**: JavaScript, C++, Rust contributions.
- **Etherpad**: Contributor & Software Freedom Conservancy committee member.
- **Mozilla Socorro**: Crash reporting system (Python, Django).

Technical Skills

- **Languages**: Python, JavaScript (Node.js, ES6+), Java, C++, Rust, Bash, SQL.
- **Technologies**: PostgreSQL, MySQL, Django, Flask, Next.js, WebExtensions, Git.
- **Expertise**: Web & browser development, cloud infrastructure, GIS, real-time data processing.