Mark Keele – v3.1.0

mark@keele.codes – https://keele.codes – Boise, ID (MT)

Software Engineer with a Master's in Computer Science and over 10 years of experience, including 7 years mastering Elixir, thriving in fast-paced startup environments like onXmaps, ScriptDrop, BlockFi, and GridPoint. I specialize in web development, APIs, networks, and security, delivering performant, secure, and robust software while excelling in remote work settings.

Senior Software Engineer - Elixir   10/2022 – 02/2025 (28 months)

GridPoint – Remote

- Developed a utility billing API integration to ingest customer data and generate savings metrics, which I visualized using an interactive Phoenix LiveView SVG bar chart. Built a demand response system with a third-party integration, handling curtailment events via API to dynamically adjust a site's energy usage based on real-time grid demands.

Software Engineer - Elixir   06/2021 – 08/2022 (14 months)

BlockFi – Remote

- Integrated OpenTelemetry for precise metrics and logging to ensure flawless execution of immutable blockchain transactions. Designed a dynamic withdrawal fee ceiling that delayed transactions until fees dropped, slashing fees from 31% above the network average to 11% below, saving significant costs while managing hundreds of millions daily transaction volume.

Software Engineer - Elixir   02/2020 – 05/2021 (16 months)

ScriptDrop – Remote

- Redesigned the order fulfillment architecture for on-demand delivery partners, starting with an Uber Eats API integration using the adapter pattern for testing without physical deliveries. I replaced a stateful GenStateMachine system with an Oban-based solution that stored delivery states in Postgresql, ensuring no data loss during crashes or deploys.

Software Engineer - Elixir   08/2016 – 01/2019 (29 months)

onXmaps – Missoula / Bozeman, Montana

- Developed a custom feature gating system for targeted feature testing, led backend development for a successful Facebook OAuth 2.0 social login that boosted account creation, and built a real-time subscription push system with Google PubSub and Elixir GenServer to ensure seamless product access.

Research Assistant - Javascript   08/2013 – 05/2015 (21 months)

Center for Research in Extreme Scale Technologies, Indiana University – Bloomington, Indiana

- Developed a Node.js and AngularJS single-page application to perform network tests and visualize performance for high-throughput Internet2 research networks.

Software Developer - Ruby on Rails   06/2012 – 07/2013 (13 months)

Leadership Computing Facility, Oak Ridge National Laboratory – Oak Ridge, Tennessee

- Built a Ruby on Rails resource allocation tracking system for the world's fastest supercomputer, transforming a MySQL database into an accessible MVC user interface.

Master of Science in Computer Science   Graduated May 2016

School of Informatics and Computing, Indiana University – Bloomington, Indiana

Bachelor of Science in Computer Science   Graduated Dec. 2012

College of Basic and Applied Sciences, Middle Tennessee State University – Murfreesboro, Tennessee