

Jacob Sandlund

jacob@jacobsandlund.com - (630) 450-4749
<https://jacobsandlund.com/projects>

Software engineer with eight years of experience working on both large production systems and customer-facing UIs, seeking to join a mission-oriented team working on challenging problems.

Work Experience

Figma San Francisco, CA
Software Engineer October 2019 - July 2020

- Established a future-proofed API for a plugin feature in time for beta developers to demo their plugins at the first Figma user conference.
- Made the rendering code easier to debug for the next person, while fixing a GPU issue.

Braintree Chicago, IL
Software Engineer November 2013 - June 2018

- Carefully introduced a new sharding dimension to a giant codebase, and cut over to new shards with no downtime or data loss. Completed well before the critical deadline.
- Avoided the need for a new microservice by replacing database queries on an overloaded table with in-memory lookups loaded from a file, using a custom compression scheme.
- Measured the impact of developing a new onboarding and login flow by also building a service to run A/B tests.

Khan Academy Mountain View, CA
Software Intern (after full-time job at Caterpillar) June 2013 - August 2013

- Crafted smoothly-interactive exercise widgets using the newly released React library.

Caterpillar Peoria, IL
Design Engineer (full-time job) July 2011 - March 2013

- Led a four person project to track and communicate exhaust fluid levels across two microcontrollers, within five months of being hired.

Skills

Languages: JavaScript, TypeScript, C, C++, Go, Python, Ruby, Java, Rust, HTML, CSS, Bash, SQL, VHDL, Lisp, PHP, Zig (learning)

Libraries/Frameworks: React, Rails, Node, Express, Flask, D3.js, jQuery, Angular, OpenGL/WebGL

Tools: Git, Vim, Docker, AWS, Terraform, Postgres, Nginx, Haproxy, Emscripten

Education

Bradley University Peoria, IL
B.S. in Electrical Engineering (GPA 3.96) May 2011