



# Jacob Sandlund

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<https://jacobsandlund.com/projects>

Software engineer with eight years of experience working across backend, frontend, and embedded systems. Seeking to join a mission-oriented team working on challenging problems.

## ## Work Experience

### Figma

Software Engineer

San Francisco, CA

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.

### Braintree

Software Engineer

Chicago, IL

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

Software Intern (after full-time job at Caterpillar)

Mountain View, CA

June 2013 - August 2013

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

### Caterpillar

Design Engineer (full-time job)

Peoria, IL

July 2011 - March 2013

- \* Developed and maintained a platform layer for engine microcontrollers, working with non-volatile memory and exposing system calls to applications.
- \* Led a four person project to track and communicate exhaust fluid levels across two microcontrollers, within five months of being hired.

## ## Skills

Languages:

C, C++, Go, Rust (some), Python, Ruby, TypeScript, Java, VHDL, Zig

Tools/Other:

Linux, RTOS, Git, Vim, Xcode, Docker, Valgrind, Raspberry Pi, Arduino, AWS, Terraform, Postgres, Nginx, OpenGL+WebGL, React

## ## Education

### Bradley University

B.S. in Electrical Engineering (GPA 3.96)

Peoria, IL

May 2011