

ALEX ZLOTNIK

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SUMMARY

I am a full-stack web engineer with leadership skills and a strong mathematical background. I enjoy solving tough problems related to data analysis, architecture, and product development.

EXPERIENCE

Principal Software Engineer

[BRD](#)

Bend, Oregon, 2017-present

I lead the backend team. The microservices we built supported the cryptocurrency phone apps as well as various other business needs.

- Worked in golang, postgresql, GCP
- Brought new members up to speed with architecture and workflow
- Mentored and assured quality of code going out
- Planned numerous projects for myself and others to implement

Software Engineer

[RightSignature](#)

Santa Barbara, California, 2015-2017

I worked with a small team of engineers building RightSignature. We all worked full-stack, pairing on and reviewing each others' work. I coordinated with other departments in order to realize projects' success.

- Worked in rails, emberjs, postgresql, AWS
- Managed the release of the RightSignature standalone product

Software Architect

[Subvertical](#)

Santa Barbara, California, 2014-2015

I owned the flagship product, VerticalChange. I met with clients and planned long-term goals for the company.

- Worked in rails, angularjs, postgresql, AWS
 - Pivoted the application from data collection to data sharing
 - Managed all new feature releases
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Software Engineer

[Opus Logica](#)

Santa Barbara, California, 2011-2014

I built several prototype applications as well as maintained existing early-stage startup applications.

- Developing an asynchronous analysis engine for Ecorithm, a building efficiency company (node, rabbitmq, mysql, redis)

[Ecorithm](#)

- Created Buildzu Connect, a full-featured construction management tool (cordova, rails, backbone)

[BuildZu](#)

- Re-built the Cocoon frontend, a web anonymity tool, and implemented the Cocoon Kids frontend feature (rails, backbone).

[Cocoon](#)

- Made a mass-emailing system with a complex trigger language (rails, mysql)

[Virtual World Computing](#)

- Coded lblack.com, an astrology app, including an engine for predicting the location of planetary bodies (rails, mysql)

[Linda C. Black Astrology](#)

Software Consultant

[Airsimmers](#)

2011-2012

I wrote an inflation simulator for a complex balloon toy.

- Wrote a physics engine that simulates forces on all points on an oddly shaped balloon (processing)
- Calculated fluid dynamic statistics to insure correct inflation of balloons

Director and Acrobat

[The Vespertine Circus](#)

Oakland, California, 2009-2011

I directed stage performances, collaborated on acrobatic choreography, and managed equipment construction.

Research Technician

[Novasite](#)

San Diego, California, 2005

I ran experiments for optimizing chemotherapy.

Research Assistant

[The Scripps Research Institute](#)

San Diego, California, 2004

I created a soluble $\gamma\delta$ T cell receptor. This can be used to discover mechanisms that play a role in wound healing.

EDUCATION

- MA, Mathematics, 2010

University of California Santa Cruz

- BS, Mathematics, High Honors, 2008

University of California Santa Barbara

SKILLS

- English, Spanish (spoken)
- JavaScript, Ruby, Golang, Python, Java, SQL
- Ruby on Rails, Node, Gin, Ember, Angular, Backbone
- Git, Emacs, Linux, Docker, AMQP