

## Objective

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To collaborate with talented engineers, and to develop products that I am passionate about.

## Experience

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### [Coding in the Real World](#), Author

June 2013 - Present

- Writing a book to bridge the gap between a CS degree and industry. Coming soon.

### [Burner](#), Lead Developer

March 2012 - May 2013

- Productionized the Python backend, increasing its test coverage from 0 to over 90%. Also handled on-call duties and performed basic administration.
- Developed [Burner for Android](#). It has over 100,000 installs, and [Ars Technica](#), [Lifehacker](#), and [Gizmodo](#) covered its release.
- Open sourced [Iron Cushion](#), a CouchDB benchmark and load test. Also developed anti-DoS measures, an abuse monitor, and a real-time stats dashboard using Redis.

### [ReadyUp!](#), Co-founder & Developer

January 2011 - February 2012

- Developed the iPhone application, including the SQL storage layer and the real-time, long-polling network layer.
- Developed the backend in Python, storing data in Redis.
- Open sourced [Pike](#), a message-level RPC library on top of the I/O loop from the Tornado web server.

### [Google](#), Software Engineer

July 2006 - January 2011

#### [Google Search Appliance Search Quality](#)

- Open sourced [Side-by-Side for Enterprise](#), a tool for evaluating scoring policies or ranking functions by comparing their results side-by-side.
- Rewrote the spelling correction pipeline. In C++, designed and implemented alternative data structures and combined all processes into one, thereby reducing memory usage by over 60%.
- Improved maintainability and increased test coverage of code adopted from the "Google 1.0" era.

#### [Google Docs Backend](#)

- Implemented sharing in Google Docs where only users with a private key can access an item.
- Pager duty and production work, including migrating all data in Google Docs to a new data center.

## Cross-discipline and extracurriculars

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- Founding volunteer of [Project:Possibility](#), through which I've [mentored hundreds of college students](#) writing software to improve the lives of the physically disabled.
- Presented on [CouchDB](#), [Redis](#), and [Google App Engine](#). Also written many [technical blog posts](#).
- At Google, interviewed over 175 candidates and co-organized the local "Noogler intergrouplet."

## Languages and technologies

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Fluent in Python, Java, programmatic testing, Redis, Git, Flask, and SQLAlchemy. Once fluent in Objective-C and C++. Conversational in HTML, CSS, Sass, jQuery, Javascript, and CoffeeScript.

## Education

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- BS with Honors, Computer Science and Engineering, UCLA 2000 - 2004  
GPA 3.6/4.0, Minor in Mathematics, Golden Key Honor Society member
- MS, Computer Science, UCLA 2004 - 2006

## Open-source software

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- Selected code from <https://github.com/mgp>:
  - [Iron Cushion](#), a benchmark and load test for CouchDB.
  - [Loco](#), an iOS library to passively update the device location using GPS while conserving battery.
  - [Blackjack Analyst](#), a simulator for evaluating different blackjack playing strategies.
- [Side-by-Side for Enterprise](#), a tool for comparing GSA search results side-by-side.