



# Jacob Budin

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## Education

### **Penn State University (Schreyer Honors), 2006-2010**

Graduated with Bachelor's in English (high distinction) and Marketing (high distinction) with 3.91/4.00 cumulative GPA

- Phi Beta Kappa inductee

## Work

### **Development Manager, Kettle, 2014-**

### **Technical Engineer, Kettle, 2011-2014**

Directed or developed websites, prototypes, or apps for Zocdoc, Pepsi, National Geographic, New York Sports Clubs, Brooklyn Bridge Park, New Museum, Downtown Brooklyn Partnership, Sesame Street, and Penguin Random House (Mad Libs)

- Prepared and presented technical materials for key client pitches and meetings
- Managed developer hiring, performance reviews, and code reviews
- Acted as key facilitator between project management, creative, and strategy teams
- Led architectural decisions including database schema generation, tool selection, package vetting; and generating supporting documents like UML diagrams
- Delegated to and oversaw front-end, back-end, mobile, and auxiliary staff
- Built in-house developer environment ecosystem using virtual machines, automated provisioning, centralized logging, continuous integration and deployment
- Developed solutions for everything from font encryption to multithreaded cloud-storage transfers to Web crawlers

### **Proprietor and developer, Budin Ltd., 2010-2012**

Developed and sold Alkaline, a self-hosted PHP CMS for creative professionals

## Projects

**Feed NYC** — Web app, REST API for soup kitchens, won Reinvent 311 Hackathon  
**Sidebites NYC** (previously in App Store) — sidewalk café app for iOS (Objective-C)  
**PlistParser** (on GitHub, npm) — XML Property List (.plist) parser (CoffeeScript)  
**Trnsmit** — an in-browser iTunes playlist converter for Rdio (CoffeeScript)

## Knowledge

**Primary programming languages:** Python, JavaScript, PHP, SQL; plus HTML, CSS  
**Secondary programming languages:** Go, Java, Objective-C (iOS), Swift (iOS)  
**System administration tools:** Ansible, Salt, Vagrant; Docker, Kubernetes  
**Version control systems:** Git, Subversion  
**HTTP servers:** Apache, Nginx (with FastCGI and WSGI stacks)  
**Application servers:** PHP-FPM (PHP); Unicorn, UWSGI (Python)  
**Relational database systems:** MySQL (and MariaDB fork), SQLite, PostgreSQL  
**Search platforms:** Sphinx, Whoosh    **Key-value stores:** Memcached, Redis  
**Cloud platforms:** Amazon Web Services (EC2, Elastic Beanstalk, Route 53, S3, more)