# Maxwell Gerber

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github.com/maxwellgerber

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## EDUCATION

**University of California, Berkeley**, *3.79 GPA, Dean's Honors*                              *Dec '17*
- B.S. Electrical Engineering and Computer Science
- Minor in Mechanical Engineering
- **Coursework:** Operating Systems and System Programming, Computer Security, Communication Networks, Digital Design and Integrated Circuits, Efficient Algorithms and Intractable Problems, Database Systems

## EMPLOYMENT

**Blackbaud LLC,** *Software Engineering Intern*                                             *Jan '17 - Sep '17*
- Implemented data processing batch API capable of performing numerous 50+ million record jobs concurrently
- Utilized numerous AWS technologies including EC2, S3, DynamoDB, and Lambda to provide reliable service
- Participated in code review, story generation, bi-monthly demos, and other aspects of Agile development
- Won Honorable Mention - *"Most Disruptive Technology For Good"* at Company-Wide hackathon

**UC Berkeley CS70 - Discrete Math and Probability Theory,** *Course Reader*                *Sep '16 - Dec '16*
- Worked with other course readers to construct meaningful grading rubrics
- Graded 120+ student homework submissions and exams each week

**Guidewire Software,** *Software Engineer, Intern*                                          *Jun '16 - Aug '16*
- Worked closely with senior software engineers and UI/UX professionals to create internal productivity tools
- Created responsive webpages with AngularJS and backend services with NodeJS and MongoDB
- Developed application that interfaced with Jira, Confluence, Rally, Bitbucket, and Microsoft Outlook

**DosePack LLC,** *Mechatronics Engineering Intern*                                         *Feb '15 - Nov '15*
- Responsible for rapid electronics prototyping using ATMEGA and embedded *NIX systems
- Heavily utilized laser cutting, 3D printing, and sheet metal design technologies

## PROJECTS

**WolfPack**                                                                                *Aug '17*
- Extensible event-based CI/CD system for AWS Lambda deployment written in BASH/Python 3
- Supports multi-user cloud based development for multiple serverless microservices at Blackbaud

**LindenPyer**                                                                              *Dec '16*
- Python toolkit used to render arbitrary Lindenmayer String fractals such as the Hilbert Space Filling Curve
- Featured support for deterministic, stochastic, and parametric system grammars

**SoundFit SugarPi**                                                                        *May '16*
- Consumer desktop 3D-Scanner powered by Autodesk ReCap API and controlled by embedded Linux SoC
- Utilized IoT techniques to create a headless device and improve UI/UX by transitioning control to mobile

**Minesweeper-Java**                                                                        *Dec '15*
- Linux-native minesweeper clone with integrated self-solving AI and interactive UX
- Developed in Java using Oracle's JavaX Swing windowing API

**Pill Dispensing Canister**                                                                *July '15 - Aug '15*
- Utilized Solidworks and design analysis techniques to create motorized plastic single-dose pill dispenser
- Worked closely with vendors in Asia to finalize design and begin production of injection molded parts

## SKILLS

**Languages**
- Experienced in Python 3/2, Javascript, MySQL, BASH, Java, HTML, CSS/SASS
- Familiar with Typescript, MATLAB, C/C++, NI LabVIEW, Verilog

**Tools**
- AWS, Docker, Git, MySQL Workbench, LaTeX, MS Office, Jupyter

## LEADERSHIP AND INVOLVEMENT

**Eta Kappa Nu Honor Society,** *Industrial Relations Officer*                              *Dec '16 - Dec '17*
- Organized on-campus recruiting infosessions with companies including VMware, GM, and Palantir

**Pi Tau Sigma Honor Society,** *Webmaster*                                                 *May '16 - Dec '16*
- Responsible for maintaining organization's website as well as updating and improving UI

**Delta Upsilon Fraternity,** *VP Academic Excellence*                                      *Dec '15 - Dec '16*
- Reviewed hundreds of candidates for biannual Charlie Cords Memorial Scholarship

**Eagle Scout**                                                                             *July '13*
- Planned and supervised restoration of 7 miles of trails in Ringwood State Park