

Christopher M. Beam

109 Twin Hills Rd Apt 9 | Dillsburg, PA 17019-9436 | (302) 981-0192 | beam.christopher.m@gmail.com

Objective

To find an engaging and challenging position that utilizes my computer science experience and helps to benefit society

Education

Bachelor of Science in Computer and Information Sciences

Bachelor of Arts in Mathematics

- Messiah College – Grantham, PA
- GPA – 3.79 of 4.00
- Graduated **Magna Cum Laude**
- **Dean's List** (all 4 years)
- **Honor's Program Graduate**
- **Sigma Zeta Honor Society**

Relevant Courses

- Data Structures and Algorithms
- Database Concepts and Applications
- Discrete Mathematics
- Elements of Computing Systems
- General Physics with Calculus
- Geometry
- Intro to Real Analysis
- Linear Algebra
- Linear Systems (Signal Processing)
- Microprocessor Applications
- Multivariable Calculus
- Operating System and Computer Architecture
- Principles of Macroeconomics
- Statistics for Mathematical Sciences

Applicable Skills

Programming Languages

Polymer (and web components), JavaScript, Java, Python, HTML, CSS, C/C++, Scheme, Prolog, Ruby, and Assembly (HCS12)

Programs, Applications, IDEs, and Operating Systems

Chrome DevTools, VS Code, Atom, gulp, npm, bower, Eclipse, Python IDLE, Maple, Minitab, CouchDB (NoSQL), Ember.js, Node.js, MySQL Workbench, Git, Chef, Salesforce, Vagrant, WordPress, and VirtualBox

Related Experience

Software Developer – Katapult Engineering – May 2016 to present

- Developed a portal/splash page for the root directory of our company's web services platform using Polymer and Firebase
- Helped upgrade an entire software suite (now called katapultPro) from deprecated Polymer 0.5 to Polymer 1.x
- Designed a feature that allowed for automatic cropping of calibrated images to create a photo library of items of known size
- Wrote an export tool to convert data from Firebase into Osmose's OCalc files for OSP pole loading analysis
- Created a Quality Control feature in our software that checks for data entry errors in our collected and processed OSP jobs
- Migrated our mapping platform from Leaflet.js to the Google Map JavaScript API (v 3.exp)
- Managed AWS instances where we have Node.JS servers running cloud functions and an S3 instance for uploaded content
- Collaborated on a 4-person 12-hour hack-a-thon to create a Unity VR application (for the HTC Vive) to demo the future usage of our software using virtual reality and 3D rendering of our data at the ISE Expo

Software Development Intern – Cure International – February 2016 to May 2016

- Studied tutorials on git terminal commands, ember-cli, and CouchDB, and read available GitHub project wiki entries
- Contributed to Cure's open source HospitalRun web application by adding localization support (i18n) to application modules
- Ported an Incident Reporting module into the HospitalRun software suite of health care modules
- Directed a meeting with Cure's administrative leaders to step through the features and use cases of the Incident Reporting tool

Intern Network Administrator and Desktop Support – Swift Capital – May 2015 to August 2015

- Helped migrate a multi-node local Exchange server to Rackspace's Hosted Exchange service
- Explored implementations Chef to manage the provisioning of new servers, workstations, and DevOp environments
- Used a GPO logon script to collect PST files and upload them to our shared drive to send to Rackspace's Email Archive system
- Helped plan a local network to properly utilize a brand-new blade server system for continuous integration of our software
- Wrote some Python and PowerShell scripts to help automate some server maintenance tasks
- Used Vagrant and VirtualBox to spin up arbitrary, on-demand VMs to test Chef (Ruby) config scripts

Student Computer Services Technician – Messiah College – August 2013 to May 2016

- Provided effective and friendly customer service to students and faculty
- Created an executable program that installs a bundle of Messiah College programs on student Windows computers
- Constructed and developed a library lookup computer kiosk from scratch using Ubuntu, Privoxy, and Chrome

Programming Team – Messiah College – February 2013 to May 2016

- Placed 39th out of 185 teams at the 2015 Mid-Atlantic ACM International Collegiate Programming Contest
- Participated in weekly team practices (at Messiah) and competitions on coding practice sites like HackerRank
- Implemented Dijkstra, DP, and greedy algorithms to solve problems in local competitions

[GitHub Account](#)

[LinkedIn Profile](#)