

ERIC A. VOLPERT

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EDUCATION

University of Chicago, Chicago, IL

Major in Computer Science
2016-17 Dean's List Student

Class of 2020

American School In London (ASL), London, UK

Relevant Coursework: AP Calculus AB, AP Physics B1 ,AP Economics, AP Statistics, Advanced Math Seminar (Including Vector Calculus), AP Physics C, Nand to Tetris, Web Development and Deployment through the Cloud

Class of 2016

Radnor High School (RHS), Radnor, PA

Awards: Summa Cum Laude National Latin Exam Participant

Fall 2012 - Summer 2014

Stanford University Online High School, Online

Relevant Coursework: AP Computer Science A, Data Structures and Algorithms

Fall 2012 - Spring 2014

WORK EXPERIENCE

Rancher Labs, Remote

Growth Hacking and Developer Relations

- Built all sorts of products to run on top of the Rancher stack.
- Wrote lots of blog posts and tutorials detailing how to run different software stacks and technologies in, on, and around Rancher.

September 2017 - Present

CrowdStrike, Remote

Data Science DevOps Engineering

- Built modules for machine learning operations and a containerized ecosystem for shipping algorithms and processors.
- Utilized Docker to create and ship packaged instances of ML algorithms and processors.

June 2017 - September 2017

Bloomberg LP

API Design and Fullstack Web Engineering (Intern)

- Developed a platform for message transformation scripting versioning and deploying as well as a message transform processor for Apache Camel
- Built a REST API to maintain scripts and versions as well as manage users, deployments, and api keys.
- Wrote a ReactJS + Flux interface to allow users to interact with the API routes in an easy, web format.

June 2017 - September 2017

- Wrote multiple processors for Apache Camel to fetch scripts from the API (supplying an environment that the API used to provide the right version) download them, pass messages through them and feed the outputs along to the next Camel route.

Floatplane Club, Remote

November 2016 - February 2017

Lead Engineer (Volunteer)

- Ideated and created an independent video streaming platform for Linus Tech Tips.
- Created a content management system to create, organize, and relate tech videos.
- Built a front end template engine to display HLS streams of said videos including quality selection, chromecast compatibility, and download support.
- Built FFMPEG transcoding drivers which pull jobs from a database and share job progress through a shared memory cache.
- Built tracking views in the CMS to follow the progress of transcoding jobs, as well as easily copy/paste templates to show videos from the platform.
- Helped to implement a Nimble Streamer based buffered HLS streaming workflow utilizing two edge nodes and a central origin node.

Secure Domain Foundation / CrowdStrike, Remote

August 2016 - June 2017

Full Stack Web Developer

- Continued work as fullstack web developer building projects for the SDF and Crowdstrike.

Bloomberg L.P. , New York, NY

June 2016 - August 2016

Machine Learning Deployment Engineer (Internship)

- Worked on Bloomberg's Machine Learning teams building workflows for deploying long running applications on the Apache Slider framework.
- Extended Apache Oozie open source project to provide deployment strategies (in the form of Oozie Actions) for machine learning cluster tenants.
- Implemented the Git ecosystem into Apache open source projects to provide version control and deployment support.
- Created actions to extend Apache Oozie for deployment of source code and dependencies onto HDFS and production clusters for easy resource management.
- Got in depth with the Apache Hadoop ecosystem, working with HDFS, Oozie, Yarn, and Slider.

DealHunter.Tech, Remote

April 2016 - Present

Developer, Designer, and Co-Founder

- Built a database backed tech deals website from scratch using Amazon's Product Advertising API to get live pricing information.
- Created an intelligent backend that checks prices and watches price trends autonomously.
- Created a mailing list with over 5,000 daily subscribers that runs completely autonomously.
- Created a robust Amazon API price checker and relative price calculator.
- Created a database driven Content Management System for listing new items with nothing more than a Amazon Standard Identification Number.

Secure Domain Foundation / CrowdStrike, London, UK

August 2015 - June 2016

Full Stack Web Developer (Internship)

- Designed, built, and implemented a Dynamic DNS web-based service for hostnames that resolve to floating IP addresses
- Adapted and Developed Reverse Proxy system from Ngrok in Golang to work with database backends and authentication
- Working with the SDF to identify bad actors using the system
- Redesigning and deploying of the new SDF website and services
- Working with authorities to sink malicious domains and liberate enslaved nodes
- Mentored under Norm Ritchie, member of the Trusted Community Representatives of ICANN

Bloomberg L.P. , London, UK

June 2015 - August 2015

Web Application Developer (Internship)

- Worked in Bloomberg's BNEF Vertical on a team of 7 Web / Backend Developers
- Worked independently on CodeCon, a Programming Competition Platform (<http://beta.codecon.bloomberg.com>)
- Built a real-time collaborative engine using TogetherJS for CodeCon users to work on the same document together
- Develop and implemented an administrative panel for competitions
- Worked using Git source control and OpenStack / Google Cloud Platform for deployment and development

VolpTech Inc. , Wayne, PA / London, UK

September 2012 - June 2015

Founder / Director

- Founded VolpTech Inc., a general tech support company for home and enterprise solutions.
- Work in homes to fix networking (printers, etc..) issues, clean up and upgrade existing computers.
- Build servers and client PC's for offices and homes.
- Configure office networks for new occupants and set up Active Directory
- Patch wireless network vulnerabilities and connection issues at small offices
- Build and design desktop and mobile websites for multiple small businesses
- Filed and received articles of incorporation for a chapter C corporation

Waterdog Computer Works, Wayne, PA

August 2011 – August 2012

Computer Technician and Shopkeeper

- Troubleshooted broken and malfunctioning computers to clean and fix issues.
- Worked with clients and processed repair orders and transactions.

Main Line DJ's, Radnor, PA

August 2013 - July 2014

Sound-stage Designer, DJ, Rigging Manager

- Planned out and designed sound-stages for individual events on a per-venue basis.
- Worked as a DJ for over 15 events, Bar/Bat mitzvahs, Weddings, School Dances
- Worked with a team to rig multiple events with full lighting and sound-stages

VOLUNTEER & EXTRACURRICULAR EXPERIENCE

Microsoft Authorized Refurbisher Club (President)**September 2012 - July 2014**

- Took old computers from community members and refurbished them using spare parts from other machines.
- Ran a program that donates said refurbished computers to members of the community who can not afford to buy their own computers.
- Attended graduating events for inner city high school students to award them with new computers.

ASL Robotics Team**September 2014 – May 2015**

- Member of joint ASL-Quentin Kynaston Robotics Team
- Work as a programmer to instruct the robot using Java in an Eclipse IDE
- Built supportive web applications to organize team workflow and communications
- Won US Robotics Competition in New York City

SKILLS

Computer Skills: Full Knowledge of OSX and Microsoft Windows based Operating Systems (Administrative tools and setting up/configuring new machines). Wealth of knowledge in computer networking and configuring or troubleshooting networks. Proficient network security skills, protecting existing networks and securing connections between computers. Many others, just ask.

Knowledge of Apache Hadoop infrastructure including Apache Oozie, YARN, HDFS, Camel, Kafka, and Slider.

Languages: Java, HTML/CSS, **JavaScript**, PHP, MySQL, **Node.js**, Haskell, and Python.

Interests: Computers and Computer Programming, Singing, Music (Guitar, Bass, Drums, Piano), Team-based Gaming, Theater