Brian **Greenberg**

Software Engineer

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Work Experience

Teradata

San Diego, CA

Associate Software Engineer

Feb. 2019 - October 2020

- Contributed to Stacki, an Open Source **Python** based baremetal provisioning tool for **Linux**.
- Provided extensive OS level support to various groups in the company
- Created a Virtual Machine library and suite of commands to allow for Stacki to deploy Virtual Machines
- Enabled a consistent, reproducible, and automated deployment/upgrade of systems in the field.

University of California, San Diego

San Diego, CA

Application Programmer

June. 2016 - Nov. 2018

- Created a **Flask** based web application for tracking fleets of Raspberry Pi's
- Worked on research project to create a **Python** based network firewall appliance.
- Emulated a much more expensive dedicated hardware firewall appliance using software and commodity hardware with similar performance
- Utilized **Software Defined Networking** in Python to implement firewall rules on network switch.
- Implemented plugin functionality for custom firewall rule matching.

Skills

Programming	Python, Java, Ocaml, C/C++
Tools/Technologies	Ansible, Docker, Bash, Redhat Enterprise Linux, SUSE Linux, MySQL
Environments	Linux, MacOS, Windows

Education

B.S. in Computer Science

San Diego, CA

University of California, San Diego

2014 - 2017

Projects

Personal Website

Full Stack Web Development (In Progress)

- Use React, Javascript, NodeJS, and other web technologies to create a personal website

Virtual Machine GPU Passthrough

System Admin

- Using **KVM**, **QEMU**, and **Libvirt**, made a Windows virtual machine running on a **Linux** system that has full 3D graphics acceleration.
- Used huge pages to increase VM cache performance and isolated guest graphics using kernel flags

Fun Stuff

- Prototyped a **GraphQL** based api for team's product in company hackathon
- Board member of UC San Diego's Computer Science Security Club last year of attendence