

Matei-Alexandru Gardus

☎ (310) 634-7520 | ✉ matei@gard.us | 🏠 matei.gard.us | 📺 StormFireFox1 | 🌐 StormFireFox1 | 🐦 @Storm_FireFox1

Education

University of California San Diego

La Jolla, CA

B.S. COMPUTER SCIENCE, MAJOR GPA 3.98

September 2019 - June 2023

- **Courses:** Systems Programming, Discrete Math, Group & Set Theory, Advanced Data Structures, Computer Networking, Deep Learning, Computer Vision, Computer Architecture

Experience

CSE Department at UC San Diego

La Jolla, CA

UNDERGRADUATE RESEARCHER

January 2022 - Present

- Researching methods of optimization of DeepVariant, a convolutional neural network.
- Found multiple hot-paths critical for optimization on pipeline, used for cancer genomics.
- Presented findings to Micron and laboratory team.

ServiceNow

San Diego, CA

SYSTEMS ENGINEER INTERN

June 2021 - September 2021

- Constructed method to instantiate Azure VM images directly from CentOS Kickstart file using **Packer** and **VMWare vSphere**.
- Saved upwards of 10 engineer workhours per run, with a projected total of 50 engineer workhours per year.
- Worked in **GitLab CI** to allow for templating any image for Azure-based infrastructure.
- Used by over 500 Azure VM's running in lab and production environments.

ACM @ UCSD

La Jolla, CA

PROJECT MANAGER & AUTOMATION DEVELOPER

May 2020 - May 2022

- Refactored and documented technology stack of all internal tooling using **Ansible**, **Vagrant** and **Terraform**, available at the GitHub repo tech-stack.
- Internal tooling includes Discord bot, organization membership portal, password manager and workshop livestreaming platform.
- Leading development of organization membership portal using **React**, **TypeScript** and **PostgreSQL**.

Digital Sky

Bucharest, Romania

SOFTWARE DEVELOPER

January 2020 - Present

- Managed **PostgreSQL** databases and client-oriented software for television and satellite broadcasting company.
- Provisioned and managed 10 bare-metal servers using IaC tools such as **Ansible**, **Terraform** and **Digital Rebar**.
- Migrated 5 self-hosted instances of email servers and managed records such as **SPF**, **DKIM** and **DMARC**. Used by over 100+ employees.
- Configured self-hosted nameservers for 20 domains hosted by the company.

Projects

Okay, I'll Byte

Anchor.fm

PODCAST

September 2021 - December 2021

- Podcast with Aaron James Eason discussing various computer science topics.
- Edited podcast using Adobe Audition, Audacity and Logic Pro.
- Listened to by over 50 unique people.

Activities

CSE Department at UC San Diego

La Jolla, CA

UNDERGRADUATE TUTOR

February 2021 - June 2022

- Tutored for CSE 100, the Advanced Data Structures course, under Professor Niema Moshiri for Spring Quarter 2021 and Winter Quarter 2022.
- Assisted undergraduate students with understanding class concepts, as well as debugging complex programming assignments.
- Positive feedback from over 100 tickets across over 20 unique students.

Skills

Languages C/C++, Java, PHP, Go, Python, HTML, CSS, JavaScript, TypeScript, SQL

Frameworks AWS, Keras, Flask, React, WebSockets, fast.ai, Java Swing, MongoDB, PostgreSQL, TensorFlow, Pytorch

Tools Bash, Zsh, Git, Systemd, Ansible, Packer, Terraform, Vagrant, Vim, Emacs, VSCode, JetBrains