Matei-Alexandru **Gardus**

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Education

University of California San Diego   *La Jolla, CA*

M.S. Computer Science, Major GPA 3.98   *September 2019 - June 2024*

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

Experience

Sigma Computing   *San Francisco, CA*

Software Engineer   *September 2024 - Present*

- Constructed automated pipeline to create templates for **Kubernetes** jobs.
- Led small team in quickly iterating on an MVP internal link shortening service for the company hackathon.
- Setup cost-saving measures for CI/CD across entire tech stack.
- Used in Kubernetes clusters spanning 7 regions.

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 workours 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**.

Activities

CSE Department at UC San Diego   *La Jolla, CA*

Undergraduate Researcher   *January 2022 - April 2022*

- 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.

CSE Department at UC San Diego   *La Jolla, CA*

Undegraduate 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 50 unique students.

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.

Skills

Languages	C/C++, Java, Rust, Go, Python, Haskell, JavaScript, TypeScript, SQL
Frameworks	AWS, Azure, GCP, Flask, React, WebSockets, fast.ai, PostgreSQL, TensorFlow, Pytorch
Tools	Bash, Zsh, Fish, Git, Nix, Systemd, Ansible, Packer, Terraform, Vagrant, Vim, Emacs, VSCode, Jetbrains