

Matei-Alexandru Gardus

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Education

University of California, San Diego

La Jolla, CA

B.S. COMPUTER SCIENCE, CS GPA 4.0

2019 - 2023

- **Courses:** Java & OOP, Systems Programming, Algorithm & Systems Analysis, Discrete Math, Linear Algebra, Group & Set Theory

Experience

Digital Sky

Bucharest, Romania

SOFTWARE DEVELOPER

January 2020 - Present

- Managed 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

BubbleChat - Real-Time Chat Application

GitHub

HTML, HANDLEBARS, EXPRESS, WEBSOCKETS

July 2018 - August 2018

- Co-created chat application that matches participants based on selected interests, or “tags”.
- **Express** and **WebSockets** backend designed to allow for dynamic expansion of chatrooms.
- Application designed to create a fun and fast-paced socializing experience.
- Won Second-Best Overall, Best Backend prize at Stanford Pre-Collegiate Summer Institutes, Web Technologies Courses.

Probleme-Info-11G - Competitive Programming Problems Repository

GitHub

C++

September 2017 - June 2019

- GitHub repository with 200 exercises from 2 Romanian competitive programming websites, as well as Codeforces.
- Served as a reference for tutoring lessons regarding complex algorithms such as dynamic programming, backtracking and pathfinding algorithms.

VianuEdu - Educational Software

GitHub

JAVA, GO, MONGODB

October 2017 - June 2018

- Co-created software capable of administering homework, as well as tests, used by over 100 students.
- Server written in **Go** with ease of deployment in mind; single binary and shell scripts provided for easy configuration and adoption in schools.
- Server additionally designed with safety checks to prevent violations of academic integrity.
- Used **Swift UI** for cross-platform GUI, designed with performance in mind to run on low-end PCs, to allow for accessibility of educational material.
- Leveraged **MongoDB** as scalable database for ease of change in database schema in the future.

Activities

ACM @ UCSD

La Jolla, CA

AUTOMATION DEVELOPER

May 2020 - Present

- 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.
- Contributed to development of organization membership portal using **React**, **TypeScript** and **PostgreSQL**.
- Currently leading side-project for creation of organization election software implementing ranked-choice voting.

Bucharest Youth League

Bucharest, Romania

TECHNICAL MANAGER

August 2018 - February 2019

- Managed technical aspects of running the Bucharest Model NATO Conference with over 300 delegates.
- Automated management of attendance lists and managing logistical aspects of conference.
- Provided valuable insights in talk topics at conference and implemented confidential distribution platform for delegate proposals.
- Assisted in writing opening speeches of Secretariat for conference.

Skills

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

Frameworks Keras, Flask, React, fast.ai, Java Swing, MongoDB, PostgreSQL

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