

MARIUS GARBEA

3400 Lancaster Ave, Philadelphia PA

(+1)215-802-3336 ♦ mariusgarbea@gmail.com ♦ mariusgarbea.github.io

EDUCATION

Drexel University

September 2017 - December 2021 (expected)

BS Computer Science and BS Mathematics with honors

GPA: 3.98/4

Member of the [Computer Science Theory Group](#) at Drexel

Teaching assistant for CS265 - Advanced Programming Techniques

Co-founder and executive board member of Drexel Blockchain

TECHNICAL SKILLS

Computer Languages

C#, Python, Javascript, Java, C, Go, Bash, SQL

Software & Tools

NodeJS, ReactJS, AngularJS, MongoDB, Spring, Hibernate, Git, L^AT_EX

EXPERIENCE

Susquehanna International Group

March 2019 - September 2019

Software Engineering Intern

Philadelphia, PA

- Built a system that transforms FIX messages provided by a trading platform to an internal format, allowing the company to log and reference any chain of transactions
- Added filtering features to a software that checks expected firewall settings against existing settings, allowing admins to group different policies for comparison
- Wrote a script for archiving and packaging files based on multiple criteria, used to move trading reports to long term storage

ActivFix

December 2017 - October 2018

Software Engineering Intern

Bucharest, Romania

- Refactored the codebase from a monolith to microservices using Spring Boot, reducing deployment time and development start-up time
- Developed an admin module and a payment module, speeding up the launch process by several months
- Configured and managed the infrastructure of the app using an Ubuntu cloud server and Nginx proxy server, and wrote various automation scripts, reducing admin's manual work by 20%

RESEARCH AND PERSONAL PROJECTS

Ascending auctions and split interval scheduling

Research project

- Converted a linear program for interval graphs to a tight 2-approximation rounding algorithm for weighted group interval scheduling
- Implemented a two-pass rounding algorithm for item distribution, simulating rounds of a truthful mechanism for ascending auctions
- Presented about easy and hard variants of interval scheduling to Drexel's theory group

SpeedPlan

Event flyer scanning mobile app

- Implemented a data parsing algorithm and a grayscale filter, improving text recognition by 10%
- Designed the underlying architecture and structure of the app following MVC and DAO design patterns
- Used specific libraries for camera, file system and external apps interaction and integrated Tesseract OCR