

# MARIUS GARBEA

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## EDUCATION

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### Drexel University

September 2017 - June 2022 (expected)

*BSCS Computer Science and BS Mathematics*

GPA: 3.98/4

Teaching assistant for CS265 - Advanced Programming Techniques

Co-founder and executive board member of Drexel Blockchain

Executive board member of Drexel Mathematics and Computer Science Society (MCS)

## TECHNICAL SKILLS

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### Computer Languages

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

### Software & Tools

NodeJS, ReactJS, AngularJS, MongoDB, Spring, Hibernate, Git

## EXPERIENCE

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### ActivFix

December 2017 - Present

*Software Engineer*

- Developed an admin module and a payment module, speeding up the launch process by several months
- Co-designed the architecture of the application and MySQL database following scalability practices (microservices, Docker containers, database normalization forms)
- Configured and managed an Ubuntu cloud server and Nginx proxy server and wrote various automation scripts

### GovITHub

October 2016 - February 2017

*Software Engineer*

- Developed the front-end of a news distribution web application in ReactJS and its state tree in Redux
- Wrote black-box unit tests for front-end components and user interactions in Jest, reducing debugging time
- Restructured ReactJS components to use static typing using Flow, increasing coverage from 30% to 100%

## HONORS, AWARDS & CERTIFICATIONS

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- Drexel University Pennoni Honors College (top 10%)
- Drexel University Founders Scholarship (60% of tuition covered)
- DevHacks 2016 Hackathon, sponsored by Microsoft, Teamnet, SoftVision - 2nd/ 52 teams
- JSHacks 2016 Hackathon, sponsored by Endava and VisionMobile - 1st/ 13 teams
- Junior Achievement Young Enterprise "Company of the Year" - national finalist
- Cisco Networking Academy IT Essentials Certification

## PROJECTS

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### Teens' Bucharest App

Mobile version of a local news web app

- Built three modules that facilitated full interaction with business content (text, social events, audio media)
- Customized a video content playing library to achieve better performance for audio only content and increased the app's podcast player's responsiveness by 300%
- Used technologies such as React Native, Redux for state management and Reselect for selector caching

### SpeedPlan

Event flyer scanning mobile app

- 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
- Implemented a data parsing algorithm and a grayscale filter, improving text recognition by 10%