

Boris Ermakov-Spektor

COMPUTER ENGINEER · SOFTWARE DEVELOPER

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Education

University of Florida

Gainesville, Florida, USA

B.S. IN COMPUTER ENGINEERING

Aug. 2017 - 2021

- GPA: **3.92/4.00**
- Completed Coursework: Computer Organization, Operating Systems, Data Structures and Algorithms, Intro to Software Engineering, Intro to Signals and Systems, Digital Logic and Computer Systems, Penetration Testing(Ethical Hacking), Microprocessor Applications, Digital Design, Python Performant Programming
- In-Progress Coursework: Algorithm Design, Reconfigurable Computing, Real-time DSP Applications

Employment

Undergraduate Teaching Assistant

Gainesville, Florida, USA

UF CISE & ECE

Jan. 2019 - PRESENT

- Former teaching assistant for Computer Organization, Data Structures, and Digital Logic.
- Held office hours, taught lab sections, and created guides.
- Current teaching assistant for Operating Systems.

Software Engineering Intern

Miami, Florida, USA

MATRIX LABS

May. 2019 - Aug. 2019

- Enabled NFC support for the MATRIX platform through designing and developing a C++ abstraction with Cmake.
- Contributed to MATRIX community with up to date documentation.
- Conducted QA testing for crucial services.

Software Engineering Intern

Miami, Florida, USA

AdMOBILIZE

May. 2018 - Jul. 2018

- Created the majority of end-user documentation with examples in Markdown for entire C++ API.
- Wrote scripts in Bash for improving device provisioning and setup, reducing deployment time by half.
- Added user-facing features to C++ API, simplifying user experience.
- Worked with development team to help implement and test improvements to mission-critical software in Node.JS.

Hardware Contributor

Miami, Florida, USA

AdMOBILIZE

Aug. 2015 - Jul. 2017

- Optimized deployment of software onto Linux-based devices.
- Lead inventory management and device assembly.
- Wrote in-house documentation detailing device assembly.
- Developed and tested improvements in device assembly.

Extracurricular Activity

MIL UF (Machine Intelligence Lab)

Gainesville, Florida, USA

MEMBER

2018

- Gained knowledge in ROS (Robot Operating System) and Python.
- Implemented the communications protocol for use in the RobotX competition
- Modified judging GUI using Qt and C++

Projects

myGNV Resource Finder

OPEN SOURCE PROJECT

2019 - PRESENT

- Developed a resource finder for the City of Gainesville.
- Used React + Javascript + Webpack for the frontend, and MongoDB + Express for the backend.
- Continue to develop and improve the application to help City of Gainesville residents.

Slack Bot

PERSONAL PROJECT

- Wrote a slack bot for text manipulation commands.
- Used Javascript with Serverless framework, and hosted bot on AWS Lambda.
- Used Regex for parsing.

Pascal Interpreter

CLASS PROJECT

- Working in a team of two, implemented a Pascal language parser and interpreter using Java and ANTLR.
- Interpreter capable of recursion, proper scoping, and imports.

Skills

Computer Lang.

C++(Skilled), Javascript(Skilled), Python(Familiar), Java(Familiar), VHDL(Familiar), MATLAB(Familiar), HTML(Familiar), Bash(Skilled), Haskell(Familiar)

Frameworks

React(Familiar), Express(Familiar), Qt(Familiar), Flask(Beginner)

Software

Linux, macOS, Windows, Quartus, Modelsim, Webpack, SolidWorks, Git, Cmake, LaTeX, Markdown