

STEPHEN NOROD

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OBJECTIVE

To obtain a software engineering full-time position starting May 2019. My experiences are comprised of efficiency-focused, test-driven programming dedicated to projects that are both compelling and conducive to my personal growth as a software engineer.

EDUCATION

Georgia Institute of Technology – Atlanta, GA	Bachelor of Science: Computer Engineering	May 2019
Classification: Senior	Minor: Computing & Intelligence	

EXPERIENCE

OSIssoft... May 2018 - Aug. | Philadelphia, PA

Software developer full-time intern for EDS (Edge Data Store), a system for temporarily storing and locally utilizing data on lightweight computers when larger network connectivity is impractical or impossible

- Redesigned EdgeScale, a performance benchmarking tool for EDS, to recursively calculate optimal message size and send data to a specified network location through HTTP in order to log metric output
- Implemented CPU usage metric for EdgeScale to measure the EDS server's total processor utilization across all cores during testing
- Augmented EdgeScale with a GZip compression feature to compress string content into byte array content

Abbott Laboratories / St. Jude Medical... Jan. 2017 - June | Atlanta, GA

Embedded software engineering R&D full-time co-op for CardioMEMS, an FDA-approved heart failure monitoring system

- Translated an XML parser from C# to Python, debugged and updated it to enter XML data into an Excel workbook with several worksheets
- Analyzed PCB schematics, performed electrical testing and solder inspection on circuit boards, experimented with testing environments, and authored a technical report to address an electronic performance issue
- Updated a software application's build scripts from Bash to Python for ease of use

Brain Trauma Assessment Protocols... Aug. 2016 - Dec. | Atlanta, GA

Android developer for Georgia Tech VIP (Vertically Integrated Projects) team, tasked with building a suite of mobile app modules to administer tests and collect data from individuals who have suffered from brain traumas

- Developed a module to simulate an image-naming neuropsychological test, provide digital audio feedback, and record audio data

PROJECTS

snorod.com - Developing a side-scroller game to embed in personal website using melonJS and GitHub Pages Feb. 2016 - Present

Pacman - Built general search algorithms for a Pacman AI to find efficient paths through a maze world Jan. 2018 - Mar.

Find George - Designed efficient image-searching algorithms for locating a variably scaled target in C and ASM Sept. 2017 - Oct.

boggle-ish - Created a numeric Boggle-style game in Java, which generates a random playing board of numbers and finds each solution (a chain of numbers that adds up to the board's area) using depth-first graph traversal Mar. 2017 - Apr.

DE2Bot - Programmed a DE2Bot to semi-autonomously explore an area, locate objects using sonar distance sensors, touch these objects, and return to its initial position in the most efficient manner possible Nov. 2016 - Dec.

pitchPy - Developed a Python program for tuning instruments by manipulating input frequencies to detect the pitch of notes at HackFSU '16 (Florida State University hackathon) Feb. 2016 - Mar.

SKILLS

Programming –	ADEPT:	Python, Java, C#, MATLAB
	FAMILIAR:	ASM, C++, C, Linux, Bash, HTML, CSS, JavaScript (melonJS / React), VHDL, PowerShell, Android

Software / Instrumentation – mbed, Raspberry Pi, Altera Quartus II, Visual Studio, REST APIs, Git, SVN, Tiled Map Editor

Engineering – Data Structures and Algorithms, Software Engineering, DSP, Math Foundations of Computer Engineering, Artificial Intelligence

Communication – Technical Writing, Adv. German, Basic Korean, Overcoming Language Barriers, Tutoring, Mentoring

AFFILIATIONS

KNIT Mentorship - Mentorship program for first-year Georgia Tech students	Mentor	Sept. 2018 - Present
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GT Circle K - Boys & Girls Club volunteering	Volunteer	Jan 2018 - Present
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Tech the Halls - Mentorship program for disadvantaged children in Atlanta	Mentor	Sept. 2015 - Present
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