

# Damon G. Otero

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Objective	Seeking a full-time software engineering position to advance my design and engineering skills. Interested in both front-end and back-end development.	
Education	College of Charleston '22   B.S. Computer Science   GPA 3.50	2018-2022
	<i>Tau Sigma National Honor Society, Highly Distinguished List Fall '21</i>	
	Trident Technical   Computer Networking Apprentice Program	2016-2017
Technical Skills	Academic Magnet High School   GPA 3.760   #2 National School	2014-2018
	<i>Languages</i>   Python, Java, Javascript, C#	
	<i>Front-End</i>   ReactJS, Photoshop, CSS, HTML, Canva	
	<i>Back-End</i>   Django, MySQL, SQLite, MS Access	
	<i>Data Science &amp; Machine Learning</i>   WEKA, SonarQube, Magenta	
	<i>Cloud Platforms</i>   AWS Amplify, AWS EC2, Google Cloud Storage	

## Research & Code Experience

### Investigating Authorship of Flawed Code in Open Source Software (2021)

Developed software that generates “programmer profiles” based on the frequency, location in code, and severity of bugs or security vulnerabilities written by each programmer. Published 2021 with NLPaSE. See website for PDF.

### Improvement of Jazz Melody Generation in Machine Learning Programs (2018)

Conducted a two-year research project and produced a forty page academic paper on the viability of music generation machine learning algorithms. See website for PDF.

## Work Experience

<b>Fullstack Developer</b>   <u>College of Charleston</u>	12/2021 - Present
Partnered with the CofC Grice Marine Lab to convert a proteomics database into a webapp using Django REST API, SQLite, and ReactJS.	
<b>Database Designer</b>   <u>Dubose Photography</u>	5/2021 - 10/2021
Designed and managed a MS Access database of 10,000 clients, including data processing, table and query design, and interface design.	
<b>Software Researcher</b>   <u>College of Charleston</u>	5/2020 - 9/2020
Independently developed the software mentioned above and presented weekly reports to a College research advisor. Submitted research to academic journals and featured in the 2020 College of Charleston Research Expo.	
<b>Java Programming Instructor</b>   <u>The Code Academy</u>	4/2019 - 7/2019
Taught programming fundamentals weekly to classrooms of 15-20 elementary and middle school students through hands-on Java activities.	

**Communication** English | *Native* Spanish | *Skilled*