

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*
Tau Sigma National Honor Society, Highly Distinguished List Fall '21
Trident Technical | Computer Networking Apprentice Program *2016-2017*
Academic Magnet High School | GPA 3.760 | #2 National School *2014-2018*

Technical Skills *Languages* | Python, Java, Javascript, C#
Front-End | ReactJS, Photoshop, CSS, HTML, Canva
Back-End | Django, mySQL, SQLite, MS Access, AWS EC2
Data Science & Machine Learning | WEKA, SonarQube, Magenta
Geoinformatics | ArcGIS, EarthPro

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.

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

Fullstack Developer | College of Charleston *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.

Database Designer | Dubose Photography *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.

Academic Researcher | College of Charleston *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*.

Java Programming Instructor | The Code Academy *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*