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 Nationally Ranked*	*2014-2018*

Technical Skills

Languages | Python, Java, Javascript, C#

Front-End | ReactJS, Photoshop, CSS, HTML, Canva

Back-End | Django, mySQL, SQLite, MS Access

Data Science & Machine Learning | WEKA, SonarQube, Magenta

Cloud Platforms | AWS Amplify, AWS EC2, Google Cloud Storage

Research & Code Experience

IEEE: 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. Available at https://ieeexplore.ieee.org/document/9719946.

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.

Blackbaud JustGiving Donation Service | College of Charleston Capstone Project (2022)

Partnered with Blackbaud to improve JustGiving such that recommended donations are tailored to users based on their hardware, location, and previous donation amount using Django. Available at https://github.com/damonot/helpmore

Work Experience

Web Developer | College of Charleston   *12/2021 - Present*

Partnered with the CofC Grice Marine Lab to convert a proteomics database into a webapp using 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.

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*