Carlos Rodriguez

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Links:
LinkedIn:// Carlos Rodriguez
GitHub:// CRodriguez245

Languages:
English
Spanish

Permanent Address:
5153 S. Artesian Ave.
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Education

Illinois Institute of Technology   *Chicago, IL*
Bachelor of Science in Computer Science, GPA: 3.62   *Graduation Expected: May 2021*
Dean's List Recipient
Forbes Under 30 Scholar, CME Group Foundation Scholarship Recipient

Experience

Incoming Solution Specialist Intern at Microsoft Redmond, WA   *May. 2020 – Aug. 2020*
- Drive customer business by providing strategic business leadership and consultation.
- Consultant for customers and partners to identify and apply Microsoft solutions for digital transformation.

Teaching Assistant in Data Structures and Algorithms at IIT   *Aug. 2019 – Present*
- Taught students in weekly labs of 40 students about fundamental concepts of storing ordered data.
- Held office hours where I individually helped students complete labs and prepare for exams.

Service Management Engineer Intern at Kirkland & Ellis, LLP   *May 2019 – Aug. 2019*
- Extracted administration's service databases and used discrete mathematics with SQL to clean the data.
- Provided suggestions to improve administrative service firmwide through storytelling and data analysis.

Data Entry and Analysis at Berto Aguayo Alderman Campaign   *Oct. 2018 – Feb. 2019*
- Inputted and organized voter data on Excel and analyzed using algorithmic techniques.
- Engaged with urban policy experts to implement changes in campaign from data analysis findings.

Back-End Developer at Chi Hack Night   *Oct. 2018 – Dec. 2018*
- Holds public speakers and breakout groups to work on civic tech projects with other professionals.
- Data analyzation and visualization of communal disparities with city databases using R-script.

Skills

Languages - Java, JavaScript, Python, R, MIPS Assembly, Mathematica, SQL, C
Databases – MySQL, SQL Server, PostgreSQL
Frameworks – Node.js, Django
Operating Systems: UNIX/Linux

Projects

Chicago Transit Authority App   *Java Application*
- Object-oriented model that creates and deletes stations, searches stations, and navigates between stations.
- Made algorithm that handles transfers between train stations to improve commute efficiency.

Chess Game   *Java Application*
- Chess game is implemented as an object-oriented computer game with a graphical user interface.
- Player vs. Player option and Player vs. Computer option that uses artificial intelligence.

Portfolio Website   *JavaScript Application*
- Portfolio website that highlights my background, professional experience, projects, and interests.

MIPS Calculator and Converter   *MIPS Application*
- Calculator conducts basic arithmetic operations in assembly language.
- Converter between decimal, hexadecimal, and binary in assembly language.

Weather Station   *Python Application*
- Uses a raspberry pi to record the weather and sends an email notification of current weather conditions.

Relevant Coursework

Data Structures and Algorithms	Computer Organization and Assembly Language
Introduction to Object-Oriented Programming	Discrete Mathematics
Database Organization	Systems Programming