

# James Waters

Boston, MA

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I am a motivated engineer, leveraging technical proficiency and leadership skills gained from a career in the medical device industry to transition to a career in data engineering. I'm proficient with AWS, databases, a fast learner, and enjoy learning new technologies and taking on new challenges. Moved to the US from Ireland as a permanent resident in 2021.

## Education and Certifications

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- **M.Sc. Materials & Engineering Science**, University College Dublin, Ireland. **2019**
- **B.Sc. Engineering Science**, University College Dublin, Ireland. **2017**
- **Relevant coursework:** Computer Science for Engineers, Understanding digital devices, Multivariable Calculus III.

## Technologies and Languages

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- Languages: Python, SQL, Java, C
- Technologies: PostgreSQL, Git, Bash, AWS (Cloud data engineering)
- Other: Data structures and algorithms, REST APIs, Computer Science fundamentals

## Projects

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- **CS50 Finance - Python3, Flask, sqlite3, Jinja**  
A fully functional web application for users to “buy” and “sell” stocks. Built using the micro web framework Flask. Utilized the relational database management system SQLite to create databases to store user information. Wrote SQL queries to update user accounts when stocks were bought or sold.
- **Space Invaders - Python3, Object-Oriented Programming**  
A replica of the classic arcade game of the same name. Written in Python3 using the Pygame library. This project uses an object-oriented design approach to create each game asset as a class within individual modules.

## Work Experience

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<b>Senior Engineer</b>	<b>Johnson &amp; Johnson</b>	<b>Mar 2020–Present</b>
<ul style="list-style-type: none"><li>● Executed on several high-profile product transfers, resulting in \$3.7MM in annual savings</li><li>● Responsible for product development of three product families, leading a team of 9 engineers</li><li>● Managed a budget of \$7.9MM including capital and expense spend. Ensuring data integrity of all entries into our internal budget management software.</li></ul>		
<b>Engineer II</b>	<b>Johnson &amp; Johnson</b>	<b>2017–2020</b>
<ul style="list-style-type: none"><li>● Completed two new product introductions, with a volume of 80k units and revenue of \$14.5MM</li><li>● Utilized FPX (Flawless project execution) principals to deliver on time, within budget, and manage project scope</li></ul>		

## Courses

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- **Building cloud computing solutions at scale specialization - Duke University** (through coursera)  
Foundational cloud computing concepts and building data engineering solutions using cloud infrastructure
- **CS50 Introduction to Computer Science - HarvardX**  
An introduction to the intellectual enterprises of computer science and the art of programming
- **SQL Bootcamp 2021**  
SQL Syntax | Advanced queries with string, comparison, and logic operations | Python with SQL