

Samuel Catania

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A self-motivated, third-year Western University student pursuing an honors specialization with a minor in software engineering. An aspiring entrepreneur, passionate about computer science and finance.

WORK EXPERIENCE

Connect-IT, Western University

London, Ontario

Technical Support Staff

2021 – Present

- Delivered technical and customer support to students and staff at Western University residences, including Brescia University College and Huron University College residences
- Used Hermes, Western-exclusive ticketing software, to write relevant, complete, and accurate tickets for customer interactions
- Performed both in-room and over-the-phone support, helping to identify and resolve network incompatibility issues and connect students in time for assignments and evaluations

PROJECTS

Western Mustang Capital Investment Fund – Quantitative Academy:

February 2022 – April 2022

- Collaborated with a team of students to develop software tools capable of autonomously identifying arbitrage opportunities for the Fund's sports betting strategies
- Built distributed systems within a one-month time constraint and wrote algorithms to parse hundreds of odds in sub-millisecond latency
- Used Selenium, an open-source tool for automating tests on web browsers, and Python to web scrape bookmakers

Shortcut Shaker App:

2019 – Present

- Designed, developed, and tested a mobile android application in Java to allow users to assign various actions (toggle flashlight, open an app, etc.) to a shortcut activated by a physical shake of the smartphone
- Extended the app's lifecycle with elegant, self-documenting code, easy to read and adapt for future developers in addition to complete and concise Javadocs (generated documentation in HTML format from Java source code)
- Improved customer satisfaction by implementing push notifications that help to increase app usage

Ball Puzzle Game:

2018 – 2019

- Used Java and Java Swing (used to create Graphical User Interfaces, or GUIs) to build a ball puzzle game in which the user must navigate a ball through multiple puzzles of increasing difficulty
- Designed a highly modular text file interpreter to build puzzles from instructions embedded within plain text files with the potential of interpreting an infinitely expandable suite of game levels
- Supported the game with comprehensive collision-detection algorithms that reduce collision-related bugs by 80%

EDUCATION

Western University

London, Ontario

Honours Specialization in Computer Science (BSc (Hons)) + Ivey Advanced Entry (AEO) Pre-Admittance

Expected 2024

- Cumulative GPA: 3.7
- Coursework: Algorithm Design, Accounting, Business Fundamentals, Discrete Mathematics, Finance, Systems Level Programming, Information Systems, Computer Architecture, Applied Logic

SKILLS

Languages: Java, Python, C, C++, SQL (MySQL), R, ARM, JavaScript

Tools: UNIX, Git, React.js, Selenium, Swing, Maven, Android Studio, Bitbucket, Gradle, Docker, Linux