Russell Anthony Bustamante

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EDUCATION

Carnegie Mellon University — Pittsburgh, PA
Bachelor of Science in Computer Science — *May 2026*
> **Completed Courses**: Imperative Computation (Data Structures), Functional Programming, Intro to Discrete Math
> **Current Courses**: Introduction to Computer Systems, Principles of Software System Construction

Troy High School — Fullerton, CA
4.67 GPA | 1540 SAT — *June 2022*

WORK EXPERIENCE

Amazon | Software Development Engineer Intern — May 2023 – Aug. 2023
Java, TypeScript, AWS, Git, Dependency Injection (Dagger), Unit Testing (Mockito) — *Bellevue, WA*
- Automated workflow for resolving discrepancies between warehouse inventory numbers and database records
- Achieved 98.9% reduction in discrepancy processing time with database querying and state machine infrastructure
- Designed lambda function workflow, improved interal DAO functionalities, and streamlined SNS notifications
- Independently identified existing inefficiencies, published design documentation, and presented deliverables

Auto Motive Power Inc. | Software Engineer Intern — June 2021 – July 2021
Python, Beautiful Soup, Pandas, Excel, MySQL, Cloud NLP — *Los Angeles, CA*
- Developed algorithm to scrape and perform sentiment analysis on articles to research competitors and industry
- Programmed scripts to access supplier APIs, identify hardware and replacements, and solve supply-chain issues
- Researched PDF parsing methods to analyze product documentation, scan tables, and import data

Drop Your Jeans Inc. | Software Developer, Website & Etsy Manager — June 2018 – Aug. 2023
Excel, VBA, Python, PyAutoGUI, Openpyxl — *Covina, CA*
- Designed Excel calculator and sales logger to facilitate transactions and modernize small retail business
- Implemented automation scripts to parse tax documents, expedite filing processes, and publish product listings
- Established company website with 25,000+ visits and founded the Etsy branch with 100+ sales

PROJECTS

Market-Making Algorithms for IMC Prosperity | *Python, Pandas* — Feb. 2023 – March 2023
- Placed 16th/1700 teams in IMC's virtual trading competition through implementing quantitative strategies such as market-making, volume weighted average pricing (VWAP), grid trading, and momentum-based approaches

Discord Bot Applications | *Python, Java, MongoDB, Git* — Jan. 2021 – Feb. 2023
- Developed Python Bot to emulate "cookie-clicker" economy game with database support for user information
- Integrated Bot with Riot Games API to analyze user data such as win-rate and most advantageous match-ups

LEADERSHIP AND EXTRACURRICULARS

CMU Science Olympiad — Aug. 2023 – Present
- Webmaster: Responsible for website maintenance and team registration; founded the organization social media

Marching Band and Concert Ensembles — Aug. 2018 – Present
- French horn Section Leader and Bus Captain for Troy High Symphonic and Marching Bands
- Currently performing in Carnegie Mellon's Marching Band, Symphonic Band, and Tartan Wind Ensemble

Competitive Ice Hockey — Jan. 2012 – Present
- Captain of AAA Jr. Ducks for 3 years; 3x Nationals Competitor, 6x State Champion, and 3x District Champion
- Currently intending to play for Carnegie Mellon's club ice hockey team

TECHNICAL SKILLS

Programming Languages: Java, C, Python, JavaScript, SML, VBA, HTML
Developer Tools / Libraries: Git, AWS (Lambda, Step Functions, DynamoDB, S3, SNS, ECS), MongoDB, MySQL, Google Cloud Platform, Excel; Pandas, Beautiful Soup, Requests, PyMongo, PyAutoGUI, NumPy, Openpyxl

AWARDS AND ACHIEVEMENTS

Awards: National Hispanic Scholar, HSF Scholar, Lockheed Martin STEM Scholar, AP Scholar with Distinction