

Software Developer Software Developer Software Engineer - Raytheon AST Forest Hills, NY
Authorized to work in the US for any employer Work Experience Software Developer Morgan Stanley - New York, NY September 2018 to Present Designed and implemented a core bank resource management core application that integrated many existing apps into one window. Created an application for specifying interest rates for different types of repo collaterals in different regions, and used those values in an application for intraday calculations. Created an application that pulled data from one database, processed and formatted that data, and backfilled it to other databases. Improved application performance by reducing the amount of data being communicated over a network by restructuring data. Software Engineer Raytheon AST June 2017 to June 2018 Designed and implemented microservices using C++, Java and Python based on requirements for a site dashboard, utilizing tools such as kafka, proto buffers, docker, and gRPCs. Created RESTful APIs for microservices to take HTTP requests and respond in JSON format with the requested data. Implemented backup data functionality for microservices by using a kafka queue to store the minimal amount of data that would be needed to restore application s original state in the event of a crash/restart. Implemented functionalities and additional features in a large C++ codebase for a user interface for microwave radio processing equipment to assist with spectrum analysis. Tracked down and fixed bugs that were producing errors in system for spectrum analysis; improved efficiency of code. Software Web Tester Intern Yondster - New York, NY May 2016 to August 2016 Prepared software test procedures and test cases to assess the website platform. Communicated with VP of Special Projects about team progress and contributed to weekly scrum meetings. Documented and tracked bugs and issues using JIRA and Confluence. Education Bachelors in Computer Science University of Richmond - Richmond, VA August 2013 to May 2017 Skills Java (5 years), C++ (5 years), C (4 years), swift (1 year), SQL (2 years), Python (2 years), octave (1 year), R (1 year), Scheme (1 year), unix (4 years), Linux (4 years), Mac OS X (10+ years), Windows (10+ years), kafka (Less than 1 year), protocol buffers (Less than 1 year), gRPCs (Less than 1 year), Docker (Less than 1 year), Object Oriented Programming/Design (5 years), shell scripting (4 years), Multithreading (1 year), Databases (2 years), Networking (1 year), TCP (1 year),

QtCreator (2 years), Firebase (Less than 1 year), JSON (1 year), Git, Scala (1 year) Links
<https://github.com/alan459> Additional Information Projects: The Productivity Timer [Swift]
<https://itunes.apple.com/app/id1363823606> Assists a user in tracking how much of their time they
use productively using two modes, productive and break . Data is collected over multiple sessions
to allow a user to compare their productivity over multiple sessions. Bitcoin Guessing
Contest/Lottery [Swift] <https://itunes.apple.com/app/id1360595699> Allows users to register for an
account and submit a guess once a week for their prediction of the week s ending bitcoin price,
prizes are funded by ad revenue. Utilized Firebase for user authentication and database
functionality and the CoinMarketCap.com API for displaying live bitcoin price to the user. Agent
Based Simulation of Microbe Interactions [Java] Simulates the interactions between macrophages
and bacterium under varying, modifiable conditions to experiment with what equilibrium is reached.
Music Syncing Application [C] Keeps music files consistent across multiple computers in a network
such that all computers have every music file any other computer in the network has, and if not, any
missing music file get copied over the network from the computer in which the file is present to the
computer that is missing that file. Utilized C sockets for TCP/IP communication over the network.
Twitter Raffle-Bot [Python/Django, HTML, CSS]: Hackathon Project; Website that mines Twitter for a
specified hashtag, and picks a random winner out of those tweets.

Name: Michael Edwards

Email: lunaricardo@example.org

Phone: 3683919462