NICHOLAS **MANGRACINA**

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Entry level developer primarily specializing in java software development and web development with background in finance and music education

EXPERIENCE/WORK HISTORY

2011 – CURRENT

DRUM INSTRUCTOR, SELF-EMPLOYED

- Lessons for beginner to advanced level drummers on drumset and marching snare drum.
- 12+ years of experience, drumset player for plays and jazz band at Manalapan high school as well as drumline section leader for Manalapan and Rutgers marching bands.

6/2016 – 8/2016

CAMP COUNSELOR, COUNTY ROADS DAY CAMP

- Responsible for supervising and constantly interacting with children ages 7-12.

6/2017 – 8/2017

ANDROID ENGINEER, INTERN, ADVENT FINANCIAL TECHNOLOGIES

- Worked in team of 2 to develop app to monitor stocks and cryptocurrencies and send alerts from movements in prices, volume, and various technical indicators

EDUCATION

09/2014 – 1/2018

B.S. COMPUTER SCIENCE, RUTGERS UNIVERSITY - NEW BRUNSWICK

- GPA: 3.15
- Relevant courses: object-oriented programming, data structures, databases, design and analysis of algorithms, systems programming, computer architecture, internet technology, artificial intelligence and machine learning, cryptography.
- Extracurriculars: Marching band, USACS member (Computer science club), Rutgers Esports, HackRU volunteer, marching band, drumset for basketball games.

SKILLS

- Proficient: Java (Android, JDBC, concurrency, JSP, JavaFx) C/C++, Python, SQL
- Familiar: Html5, CSS, JavaScript(react.js, node.js), C#, Unix, NoSQL, XML, .NET

- Strong collaboration skills. Bitbucket + Github
- Leadership experience as marching band section leader
- Strong problem solver and algorithm designer
- Advanced knowledge of data structures and object-oriented design

*Next page contains some notable projects

PROJECTS

STOCKALERT – PERSONAL JAVA PROJECT

- Constantly checks if a stock's price or volume is above or below specified target.
- Queries sent to server via text message.
- Alerts sent to phone as a text message and/or phone call.
- JavaMail, jsoup, JDBC for SQL queries, selenium for calls.

TRADETRACKER ANDROID APP

- Includes all cryptocurrencies and stocks, push notifications for price or volume targets met.
- Monitor movements in volume or price according to user's parameters (e.g. notify if up 2% in a 5-minute timespan, down 10% in a week, etc.)
- Momentum notifications based on RSI and other stochastic indicators.
- Java/Kotlin, jsoup, junit, SQLlite, yahoo finance API, cryptocompare API.

RUTGERS CARPOOL WEBAPP – RUTGERS PROJECT

- Carpool scheduling for students with similar schedules.
- JSP, JDBC, SQL, Apache tomcat server.

BANKING SYSTEM (CLIENT AND SERVER)– RUTGERS PROJECT

- Multi-threaded, as well as multi-processed version made for extra credit.
- Written in C, utilized network sockets, pthread libraries, POSIX shared memory.

Full list of all personal and university projects with source code can be found at http://nick433.github.io