

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, MS office
- 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, SQLite, yahoo finance API, cryptocompare API.

RUTGERS RIDESHARING WEBAPP – RUTGERS PROJECT

- Carpool scheduling for students with similar schedules.
- JSP, JDBC, hosting on amazon web server with MySQL database, Apache tomcat server for test hosting.

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.

HANDWRITING CLASSIFICATION WITH NEURAL NETWORKS – RUTGERS PROJECT

- Supervised learning from sample data of drawn number
- Utilizes neural networks to run tests on training data to learn what written numbers look like from pixel analysis, then runs test data to see accuracy and learn over numerous iterations.
- Written in python, everything hard-coded from scratch.

Full list of all personal and university projects with source code can be found at <http://nickmangracina.me>