

# NICHOLAS MANGRACINA

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Recently graduated developer primarily specializing in java software development, with a background in finance and music education

## EXPERIENCE/WORK HISTORY

6/2017 – 8/2017

**ANDROID ENGINEER INTERN**, ADVENT FINTECH LLC

- Developed and launched website for startup company.
- Worked in team of 2 to develop TradeTracker app for android. (details in projects section)
- Optimized code to be more efficient and consume least battery life possible for app.

6/2016 – 8/2016

**CAMP COUNSELOR**, COUNTY ROADS DAY CAMP

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

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.

## EDUCATION

09/2014 – 1/2018

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

- In-major GPA: 3.27
- 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 (J2EE, Android, JDBC, concurrency, JSP, JavaFx) C/C++, Python, SQL
- Prior experience: Html5, CSS, JavaScript(reactJS, node.js), C#, Unix, NoSQL, MS Excel, AWS, VB
- Collaboration/version control (git)
- automation experience - Selenium, vbs, python
- Advanced knowledge of data structures, object-oriented design, algorithm design
- Able to analyze and find patterns from data charts (stock day-trader for side income)

\*Next page contains some notable projects

# PROJECTS

## **TRADETRACKER – ANDROID APP**

- Sends push notifications for price or volume targets met for stocks and cryptos
- Customizable alerts using various technical indicators e.g. EMA, SMA, RSI, OBV, MACD.
- Monitors movement in volume or price according to user's parameters (e.g. notify if up 2% in a 5-minute timespan, volume triples in 20-minute period, etc)
- Kotlin/Java, anko, jsoup, junit, SQLite, yahoo finance API, cryptocompare API, Espresso and JUnit for testing

## **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

## **RUTGERS RIDESHARING WEBAPP – RUTGERS PROJECT**

- Carpool scheduling for students with similar schedules
- JSP(Java,HTML), JDBC, hosting on amazon web server, uses mySQL database, used Apache tomcat server for test hosting

## **HANDWRITING CLASSIFICATION WITH NEURAL-NETS – 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

## **COMPANY WEBSITE – INTERNSHIP PROJECT**

- Simple company website for Advent Fintech with contact info and aesthetic design
- HTML5/CSS3/Javascript. Utilized bootstrap, jquery, dynamisch.js, stellar.js (parallax)

## **WEBREG REGISTER BOT – PERSONAL PROJECT**

- Constantly checks for courses to be open, notifies and registers for you when open
- Written in Java, utilized javaMail, jsoup, and Selenium

More projects, source code, and digital copy of resume can be found at <http://nickmangracina.me>.