

# Nicholas Mangracina

Backend Developer

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## Education

**Rutgers University - New Brunswick**

*Sep. 2013 – now*

**Field of study:** B.Sc. Computer Science w/ minor in Economics

**Relevant Coursework:** Intro to OOP, Data Structures, Computer Architecture, Systems Programming, Database Management and Implementation, Design and analysis of algorithms, Software methodology, Principles of programming languages, Internet technology

**Extracurriculars:** USACS (Computer Science Club) Member, Rutgers esports, HackRU volunteer, Marching band, Drumline Section leader, drumset for basketball games

**In-Major GPA:** 3.25

## Work experience

**Self-Employed – Drum instructor**

*Jan 2011 – now*

- give lessons to beginner to advanced level drummers, drumset and marching snare drum
- playing for 12 years, drumline section leader in Manalapan High Marching band fall '11 and '12

**CVS**

*Manalapan, NJ*

*April 2014 – September 2015*

overnight retail

- helped develop communication skills for customers
- cashier, stock, cleaning

**Emilio's pizzeria**

*Manalapan, NJ*

*January 2015 – May 2016*

- Delivered pizza, cleaned, assisted with cooking

**County Roads Day Camp**

*Manalapan, NJ*

*June 2016 – August 2016*

- obstacle course / rockwall. Supervised and instructed children ages 4-13

## Projects

- **Multi-threaded banking system** – Server and client programs for a banking system, multi-threaded and multi-processed versions completed for extra credit. Utilized networking, pthread libraries, and POSIX shared memory. Written in C. Systems Programming- grade:100%
- **Circuit simulator** – Built a circuit simulator which sets the output variables of an FSM given a list of logic gates with boolean input and output variables. Written in C. Comp Arch.- grade: 100%
- **Simple reminder app** – receive text messages from bot email at future time. javaMail API
- **StockWatcher** – constantly checks prices of stocks for being above or below a target price, queries are sent to the server via text message, alerts are sent to my phone by text message and call. Java. Uses javaMail API, Jsoup, JDBC for SQL queries, Selenium for calls
- **StockAlert** – Android app which includes all functionality of StockWatcher plus constantly samples prices of given stocks for spikes in a stock price according to user's input parameters (if swn up 2% in 3 minute timespan notify user)- Java+Kotlin. jsoup, SQLite, JDBS, JavaFX
- **Rutgers Carpool system** - A way schedule carpooling for people with similar schedules. JSP

## Technical skills

**Proficient:** Java/J2EE(JSP, concurrency, sockets, servlets, JavaFx, JDBC, Android), Kotlin, C, Python, SQL(mySQL+workbench, AWS, Oracle, jdbc), JavaScript, HTML5, Word, Excel, PPT

**Familiar:** C++, .NET, C#, mongoDB, Ruby, PHP, CSS3, Unix, TCP/IP, XML, Apache/Tomcat, UML, bash/shell scripting