

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%
- **webreg app** – constantly checks for courses to open and registers. javaMail, jsoup, selenium
- **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 webapp** - Schedule carpooling for students with similar schedules. JSP, JDBC

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