

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, Databases, Algorithm design and analysis

Extracurriculars: USACS (Computer Science Club) Member, HackRU volunteer, Marching band, Pep band

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 and held a leadership position (drum captain) in Manalapan High School Marching band

CVS

Manalapan, NJ

April 2014 – September 2015

overnight retail

- helped develop communication skills for customers
- Clerk, stock, facing, cleaning

Macy's

Freehold, NJ

November 2012 – January 2013

Sales associate – seasonal

- customer service, sales

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. For 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. Extra credit was to implement a sequential version using the logic of a D flip-flop. Written in C. For Comp Arch, >100%
- **Text message reminder** - simple reminder application to receive and send text messages from bot email at future times. Parses messages for a written time followed by a message to be sent. Utilized Javamail API
- **StockWatcher** - Watches specified stocks stored in a database on a private server, 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. Scrapes HTML on yahoo finance for prices. Uses javaMail API, java JDBC for SQL queries, Selenium for calls

- **StockAlert**- Similar to StockWatcher, constantly samples prices of given stocks for spikes in a stock price. Like if there is a 2% decrease in a 30 second period, 4% increase in a 4 minute period, etc. Example: send "SWN 2 3m" to email bot.. the stock price will be constantly sampled and plotted to the database, saving up to 3 minutes of data in second intervals. If there is a 2% increase between any 2 points in the last 3 minutes, I(or potential user)will be notified via text
- **Rutgers Register bot**- Every 5 minutes, parses HTML data from Rutgers course schedule planner to check if specified classes stored in database are open and registers for them if they are, as well as notifies me via email. Java.

Technical skills

Proficient: C, Java, Python, JavaScript, mySQL, Vim

Familiar: C++, C-sharp, mongoDB, Ruby, PHP, CSS3/HTML5, Linux/Unix, bash/shell scripting

Highly adept with algorithm design/implementation, optimization, collaboration