

TIM SWYZEN

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EDUCATION

Rutgers University New Brunswick, NJ
BS Computer Science/Minor in Mathematics *GPA: 3.1* Sep 2018 - May 2020

Raritan Valley Community College Branchburg, NJ
AS Computer Science *GPA: 3.8* Sep 2016 - May 2018

WORK EXPERIENCE

Rutgers School of Communication & Information New Brunswick, NJ
IT Helpdesk Jan 2019 | Present

- Resolved many technology issues from Rutgers staff on a weekly basis, such as account management and computer maintenance
- Exhaustively tested new features, including forms for equipment rental on the university website
- Explained usage of various technologies like FTP to users and coworkers

Computer Clinic, LLC Pittstown, NJ
Owner/Technician Apr 2016 | Jun 2018

- Built a local business from scratch, starting ad campaigns and servicing dozens of repeat clients in the area
- Created a company website containing business information, rates, appointment forms, etc. with some SEO optimization

PROJECTS

TwitNN *Python, TensorFlow, Tweepy* <https://github.com/Pazda/TwitNN>
Used a RNN module to make a small machine learning script that learns a Twitter user's writing style and outputs its own generated text based off of it.

Loop Packaging Algorithm *Python* <https://github.com/Pazda/loop-pack>
An algorithm that utilizes parallel processing (multithreading) to generate all possible combinations of packages that would fit in a specific size tote for a startup.

Higher Level Math Calculators *Java* <https://github.com/Pazda?tab=repositories>
Including a Gauss Elimination calculator, a Gram-Schmidt orthogonalization calculator, an alternative discrete modular arithmetic calculator, and others.

Garry's Mod Scripts *Lua, Garry's Mod API* <https://gmodstore.com/teams/590/addons>
Created and sold a number of video game scripts such as a court system, a simple business simulator, and a turn-based strategy game, generating over \$3,000 in revenue with over 500 sales.

EvoSim *JavaScript, HTML/CSS* <http://pazda.github.io/EvoSim>
Developed a web-based simulator for natural selection and evolution. Accounts for three-dimensional genetic traits, trait favorability, overpopulation, mutations, birth-death ratios, and genetic passing.

PazBot *Python, discord.py, TensorFlow* <http://github.com/Pazda/PazBot>
A bot for chat application Discord. Implemented TwitNN into chat commands, minigames such as trivia and collaborative story-writing, and admin commands.

Banking Client/Server *C* <https://github.com/Pazda/banking-system>
A demo of a banking server and client using UNIX sockets, created for a class project.

SKILLS

Programming Languages: Java, Lua, Python, C, C#, JavaScript, Some fluency in other languages
Spoken Languages: English, Flemish, Dutch, German
Other Skills: Linux, Git, Windows

AWARDS

Dean's List Raritan Valley Community College
Recognized for four semesters in a row for outstanding academic performance

PTK Membership Phi Theta Kappa
Honor society for community college students