

Career Objective

Driven by an insatiable appetite for exploration and creative problem-solving in the area of open-source software projects and after years of self-learning, followed by formal education in Computer Science earning a 3.978 GPA, the next step is to apply these disciplines learned toward engineering software that solves the needs of a particular enterprise and its stakeholders.

Formal Education

- [Thomas Edison State University, Bachelor's in Computer Science](#)
- GPA: 3.978
- Five President's List Achievements
- Two honor society invitations
- Graduated Dec. 2021
- View [Diploma](#), [Transcript](#), etc.

Career-specific transcript→

- [Rutgers University, Bachelor's of Music](#), GPA: 3.011, Two Dean's List Achievements, Graduated May 2005

| Course | Grade | Term |
|-----------------------------|-------|-----------|
| System Analysis & Design I | 99% | June '21 |
| Software Engineering | 100% | Mar. '21 |
| Database Management (SQL) | 96% | Mar. '21 |
| Artificial Intelligence | 97% | Feb. '21 |
| Computer Architecture | 97% | Oct '20 |
| Calculus I | 94% | Oct '20 |
| Discrete Mathematics | 93% | June '20 |
| Python Programming | 94% | June '20 |
| Data Structures (in Python) | 96% | Dec. '19 |
| Operating Systems | 93% | Dec. '19 |
| C++ Programming | 98% | Sept. '19 |

Certifications, Additional Coursework and Training

- [Codecademy, Full Stack Engineer — Career Path](#) Covered HTML, CSS and JavaScript with the MERN Stack, which includes Node, React and Express. Sept. '21 ~ Feb. '22
- [ColumbiaX \(Columbia University via EdX\) CSMM.101x Artificial Intelligence](#) Taken in parallel with Thomas Edison State University's AI course as it uses the same textbook but includes work implementing AI algorithms in Python. Feb. '21 ~ Apr. '21
- [C++ Institute, CPA – C++ Certified Associate Programmer](#) Upon passing in-person test conducted by [Pearson VUE](#), certification was awarded in May 2015. [View Certificate](#)
- [CoderManual, Complete Web Developer Bootcamp with Rails](#) (also covering Git/GitHub, JQuery and Bootstrap) Aug '15 ~ Oct '15

Selected Projects

- **JavaScript (Node), React, Next.js and TailwindCSS**
- [next-markdown-journal](#) — A personal journal, blog and portfolio website built in Next.js with content authored in MDX files (Markdown with JSX support) and TailwindCSS. Dec. '21 ~ Present.
- [spelunker-node-shell](#) — “spelunker() sends your guy into the shell and brings back the goods quicker than going in and out for each command.” The goal of this project was to limit I/O with the shell and thus increase performance. Last commit: Jun. '16
- **CSS/SCSS, Bootstrap and HTML**
- [jeffpack-for-wordpress](#) — A WordPress Plugin / Theme for editing sites from a local machine with installing & updating the deployed site done via git. Last commit: Jan. '17
- [scoped-bootstrap](#) — Apply Bootstrap only to specified HTML elements. Last commit: Aug. '16
- [PlastiCSS](#) — A SCSS (Sass) library to generate CSS for pages without horizontal scrolling. Last commit: Mar. '16
- **Ruby and Ruby on Rails**
- [markdown.design](#) — A real-time web page generator assembled from simple markdown documents. Last commit: May '16
- [gfunc-gem](#) — The gfunc Ruby gem is a small collection of multi-purpose utilities. Last commit: May '16
- **C++ & DSP**
- [AdlibBlaster](#) — MacOS port of [bsutherland/juceOPLVSTI](#) — A VST instrument which emulates the Yamaha OPL sound chip used in PC sound cards from the 90s. Last commit: Feb '16
- [jATK](#) — Jeff's (JUCE) Audio ToolKit — A DSP audio synthesis library. Last commit: Jun. '15
- **Git and various Terminal Utilities (Bash Scripts)**
- [gits](#) — Initialize and toggle between multiple Git repositories from the same main working directory. Last commit: Oct. '16
- [bash-boolean-helpers](#) — Adds 'truthy' and 'falsy' to Bash with better, cleaner syntax. Last commit: Jun. '16
- [bashquicks](#) — Staple bash scripts for common tasks. Last commit: May '16