

EDUCATION

New York University | Manhattan, NY

May 2019

Bachelor's in Computer Science | GPA: 3.96 | Magna Cum Laude, Dean's List

Minor in Political Science, with a Concentration in Game Theory, Decision Theory & Statistical Analysis

Relevant Coursework: Java Programming, Data Structures, Discrete Mathematics, Linear Algebra, Computer System Organization, Basic Algorithms, Operating Systems, IOS Programming, Applied Internet Tech, Agile Software Development and DevOps

TECHNICAL EXPERIENCE AND PROJECTS

Social NYC Restaurant Connect (w/ Yelp API)

github.com/nyu-software-engineering/restaurant-finder

MongoDB, Express.js, React.js, Node.js, JavaScript, Bootstrap, Yelp Fusion API, Path.js HTML, CSS, Cookies, Unit Testing, Continuous Integration

- Developing an NYC Restaurant Locator to connect users based on personalized metrics to optimized search results, by utilizing the Yelp Fusion API for pulling information on 20,000+ local restaurants and storing it in a MongoDB Database along with user profiles
- Adding Social Networking Functionality allowing users to connect and share ratings and recommendations, including friend news feeds and optimized search results based on the recommendation of trusted acquaintances.
- An Express server stores MongoDB data and redirects to a React Server port posting and updating Bootstrap created Webpage.

Net.js TCP/IP Server

github.com/willcpo/net-Web-Server

Node.js, JavaScript, net.js, path.js, fs.js, Object-Oriented Programming, Routes, Middleware, Static Server, Unit Testing

- Used Node.js & the net module to create a reusable express-like web framework and a TCP/IP server of custom and static server routes
- Utilized the created server to handle routes for a webpage generating randomized animal photos in randomized displays

Teacher Gradebook Extraordinaire

github.com/willcpo/iOS-Gradebook

Objective C, Foundation, UIKit, Cocoa Touch, MVC Pattern, Interface Builder, Outlets, Object-Oriented Programming, Segues

- Objective-C iOS app that allowed the user to create, browse and display data and test scores on specific students

Emoji Connect Four

github.com/willcpo/Connect-4-Clone

Node.js, Readline-Sync.js, wcwidth.js, clear.js, Command-Line User Interface, Object-Oriented Programming, Unit Testing

- Command-Line interactive PVC game used customized emoji board pieces to simulate the Connect Four game in the console.

Weather Data Report Generator

github.com/willcpo/Analyze-Weather-Data

Node.js, request.js, fs.js, path.js, API fetching and parsing, JSON, Data Analysis, Object-Oriented Programming, Unit Testing

- Generated reports analyzing averages and statistical bounds of historical weather data using a remote API containing JSON data

Frogger Clone

github.com/willcpo/FroggerClone

Java 8, Processing 3, Object-Oriented Programming, Graphics and Animation

- Utilized Java and the Processing Library to create an interactive game where the goal is to avoid traffic and collect coins to win

SKILLS

Languages: JavaScript | Node.js | Java | MongoDB | C | Objective-C | Swift | HTML5 | CSS | SQL | JSON | x86 assembly | STATA

Frameworks: Express.js | Mongoose | SocketIO | AJAX | Bootstrap | Handlebars | React | Gulp.js | Cocoa Touch | Mocha | Chai

Applications: Photoshop | Illustrator | Flash | Premiere | Git | GitHub | XCode | Eclipse | Travis CI | Microsoft Office

Concepts: Agile | Scrum | OOP | Model-View-Controller | Responsive Design | Unit Testing | Web Accessibility | Client-Server access

EMPLOYMENT

Friedlander Lobbying | Research Intern

Jan - May 2017

- Successfully Lobbied the House of Representatives to award Egyptian President Anwar Sadat with a Congressional Gold Medal
- Collected and maintained a database of 1000s of congressional staff information and developed individualized appeals

YPI Inc. | Computer Teacher / Counselor

July - Aug 2017

- Chaperoned high school students while teaching them video and photography software for their Capstone Art Projects
- Assisted the program with any IT needs impinging on the Students' ability to create and present dynamic visual media art

LEADERSHIP

- **Appalachia Service Project:** Repaired houses in the Appalachian region of America over two summers
- **Women's Lunch Place:** Volunteered at a battered women's shelter in Boston for 100+ hours
- **NYU Mock Trial Society:** Researched cases and served as a witness for regional competitions
- **Emerson College:** Studied animation, film, editing and screenwriting in the Visual Media Arts Program for 1.5 years
- **Art History Abroad:** Studied Art History across Italy
- **Where There Be Dragons:** Built structures and farmed at monasteries in Myanmar & Refugee camps in Thailand while studying poverty, politics, religion and culture