

Peter Buonaiuto

Registered Developer, General Contractor, Entrepreneur

builtbypeter.us

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EDUCATION

University at Albany, NY — *Masters in Computer Science*

JANUARY 2023 - EXPECTED MAY 2024

Explored software engineering theories, fundamentals, and advanced topics. Produced multiple applications as both solo and team works using frameworks such as ReactJS, Express/Node.js, React Native, UE4, Django.

University at Albany, NY — *Bachelors in Computer Science*

JANUARY 2021 - MAY 2023

Studied programming and algorithms from high level object oriented languages such as Java and Python to lower levels such as C and Assembly. Earned a minor in Mathematics, studying calculus & probability.

Binghamton University, NY — *Integrative Neuroscience*

AUGUST 2020 - DECEMBER 2020

Developed a scientific and analytical mindset that I apply in my software development. Grew an iterative approach to problem solving.

Sachem High School East, Farmingville, NY

SEPTEMBER 2016 - JUNE 2020

Graduated in the top 1% of my class, excelling in many AP classes. Tutored and conducted science research each year, and was elected VP.

WORK EXPERIENCE

Built By Peter, Long Island, NY — *Contractor, Owner*

JANUARY 2018 - PRESENT

Private work done under my company from framing to luxury trim and all that comes in between. Established a successful business with amazing reviews, giving me immense experience in the professional world.

Software Development, Virtual — *Personal Work*

FEBRUARY 2018 - PRESENT

Created video games released online, as well as mobile applications to help those in the workforce with construction related tasks. These projects require algorithm design, animation, physics, and 3D modeling.

SKILLS

Business Management

Software Development

Algorithm Design

Carpentry, Electric, Painting

AWARDS

Gold Presidential Volunteer award for service done at Stony Brook Hospital

AP Scholar with Distinction for exceptional grades on many AP exams. Most prestigious AP award given

Ludem Dare Game Jam
Distinguished top 6% submission in a 72 hour video game creation contest

Summa Cum Laude
Graduated from SUNY Albany with the highest honors recognized in the U.S.

HOBBIES

Music experience playing four different types of saxophones

MMA from 2006 - 2020: received awards here as well

Construction all phases for family, friends & business

PROJECTS

Web Portfolio — builtbypeter.us

Programmed from scratch with ReactJS, this site works with my custom backend server to provide visitors a resume, introduction, my experience and blog posts to get an insight to my software adventures.

Building Calculator — *Available on iOS / Android*

Application to quickly and precisely calculate complex field applications in construction, converting any decimals to fractions that exist on a tape measure and maximizing material to avoid compromising profit and time.

Meal Genius — *Coming soon to iOS / Android*

Provides the user with unique and custom tailored meal ideas. They can swipe left or right based on their interest, and set specific criteria for the AI generated meals and meal images to be just for them. Users can view instructions and ingredients for any meals.

Chicken Duty — Available on Steam for windows PC

3D Video game built in 3 days for a competition where an AI chicken battles its way through dangerous scenarios as you try to save him from mortality. The theme for the game competition was “Keep it Alive”.

DocXtract — Mobile & Web document collection solution

Service which allows users to snap an image of their document, where their handwriting is converted to text and stored in a database of all responses for the organizer to view and query.

ClimbConsign — Private marketing interface

Built for a climbing gym, this interface ties together the previously disconnected user base, item database and point of sale. Users consign their items, using the business to market them to others, and the business can use this software to manage and view the sales.

Plywood Optimizer — *Available soon on iOS / Android*

Optimally organizes rectangular cut-outs on a sheet of plywood in a way that minimizes the scrap and maximizes user profit by requiring the least amount of purchases.

Insider Game — *Coming soon to windows PC*

4 player game where one individual infiltrates a heist to steal powerful potions from a research lab. The bandits are aware of an imposter in the group, and have taken hostages to try and reveal who among them is against their agenda. Play as the bandits and watch your back, trying to pick up queues on detecting the insider. Or, play as the insider and try to blend in, take out the terrorists one by one, or save the hostages.