

Alexander Hutman

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EDUCATION

QUINNIPIAC UNIVERSITY

BS IN COMPUTER SCIENCE

BA IN MATHEMATICS

May 2019 | Hamden, CT

College of Engineering

Magna Cum Laude

Cum. GPA: 3.87 / 4.0

Major GPA: 3.95 / 4.0 (CS)

3.85 / 4.0 (Math)

LINKS

Github:// alexhutman

LinkedIn:// alexhutman

YouTube: MathTutorials

Quora:// Alex-Hutman-1

StackOverflow:// 6708303

COURSEWORK

COMPUTER SCIENCE

Algorithm Design & Analysis

Computer Architecture & Organization

Cryptography

Cyber Security

Data Mining

Data Structures & Abstraction

Intelligent Systems

Introduction to Software Development

Networking & Distributed Processing

Operating Systems & Programming

Parallel & Distributed Computing

Theory of Computation

iOS Programming

MATHEMATICS

Abstract Algebra

Advanced Calculus

Introduction to Discrete Mathematics

Linear Algebra

Multivariable Calculus

Number Theory

Ordinary Differential Equations

SKILLS

PROGRAMMING

Experienced:

Python • Java • Shell/coreutils

T-SQL • Javascript • VBA • vim

Acquainted:

Swift • C • PHP • Cython • Go

Assembly • R

Familiar:

C++ • AWS • Scala • Objective-C • sed

EXPERIENCE

CIGNA | SOFTWARE ENGINEER

July 2019 - Present | Bloomfield, CT

- Worked on HIFI – an internal Python user-facing application that facilitated the transfer of DSV files into the Hadoop ecosystem and allowed users to query them using HQL.
- Improved its performance, CI/CD pipeline, and overall functionality/capability.
- Interacted with Kafka and Ceph S3; also made use of Jenkins and Ansible for deployment.

SIKORSKY AIRCRAFT | BUSINESS ANALYST INTERN

November 2018 – July 2019 | Stratford, CT

- Worked with customers to develop dynamic web-based applications and Excel macros tailored to their needs.
- Designed, queried, and maintained SQL databases to interact with aforementioned applications/macros.
- Created a web application for helicopter designers/engineers to consolidate data needed for calculating torque values based on different fasteners, wrench lengths, etc.

PROJECTS

VSCOVIEWER | CHROME EXTENSION

Jan. - Feb. 2018

- **Chrome extension** in JavaScript that allows users to open pictures hosted on the VSCO website in a new tab at their respective uploaded resolution. Currently has 4.5 stars and 3,000+ users on the Chrome Web Store.

GAUSSIAN | INTERACTIVE/INFORMATIVE WEB APP

June 2017, March 2018

- **Web application** in JavaScript using the p5.js library that informs users how Gaussian Blurs are performed, as well as the intuition behind the algorithm.

RESEARCH

QUINNIPIAC UNIVERSITY MATH DEPARTMENT | RESEARCHER

Fall 2016 – Present | Hamden, CT

- Wrote and optimized a program in Python-based mathematical software called SageMath that traverses a “metagraph” to efficiently calculate the zero forcing number of a desired graph.
- Will be **open-source** for others to be able to calculate similar “forcing numbers,” which have applications in smart sensor networks and for uploading/downloading data in certain quantum computing design paradigms.
- A formal paper will also be written and will hopefully have use in graph theory.

AWARDS/ACCOMPLISHMENTS

2015 - 2019 Dean's List

2015 - 2019 Dean's Scholarship

2015 - 2019 Lee Company Scholarship

2019 Outstanding Achievement in CS

2019 Quinnipiac Computing Club

For earning a 3.5 GPA or greater

“For academic excellence”

“For being an outstanding student”

Decided on by faculty

President