

# Akassh Shah

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<https://akassh.me/>

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## Education

### Master's in Science | New Jersey Institute of Technology | May 2021

Continued research in evolutionary algorithms but dived more so into web dev and certain algorithms along with cloud computing

### Bachelor's in Science | New Jersey Institute of Technology | Dec 2019

Coursework included a lot of low level programming with some web dev and game design. Also started research for certain evolutionary algorithms

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## Experience

### Associate Software Application Developer | Lifion | July 2021 - Present

- Worked in a team to make a tool to backup and copy database data with certain filters while heavily focusing on optimizations that can be made
- Worked with another team member to build a tool that allows user to query certain databases under a heavily filtered and monitored environment, to provide easy access to data while protecting it

### Research Assistant | NJIT - Amy Hoover | October 2019 | April 2021

- Develop an evolutionary neural network based on a study to compare with another algorithm thought of in-house
- Create a testing suite for said algorithms

### Manager | Environmental Health & Science at NJIT | October 2018 - April 2021

- Created & maintained a database for chemicals being stored and note of any incompatible stores
- Yearly DoEP reports made using said database
- Streamline the process

### Computer Science Tutor | NJIT | September 2016 - January 2019

- Explore more approachable paths to attain knowledge around data-structures, algorithms & game-dev
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## Projects

### Patient-Doctor ERMs

- Developed a full-stack application based on Flask for the backend
- Operations included purchase management & billing, appointment proposals, live video calls and more

### Basket Analysis

- Integrated the Apriori algorithm into a pipeline running cron-like job to show patterns that may help maximize sales

### Project Biome

- Developed a isometric environment game with a procedurally generated world with elements of mining & survival

### Exam Testing Portal

- Portals for students and teachers to set and take exams for programming questions
- When a student enters a piece of code, the program analyzes it and runs it and compares it to known inputs & outputs

### Car Controller

- A micro-pyth program that acts as a receiver for a (toy) car and send electrical signals to speed controller
- A stand-alone android app that can take in inputs to pass on over WiFi to the car and can receive a steady video stream for a funner experience

### Lexical Analyser

- Based on a regular language tree, made a lexical analyser to parse the language and generate an AST

### AutoEncoder for Image Classification

- Generated an image autoencoder to assist with the evolutionary algorithm to score images
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