

# KHINSHAN KHAN

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## Education

### Hunter College, The City University of New York

New York, NY

B.A. IN COMPUTER SCIENCE | GPA: 3.84/4.00

Exp. Jun. 2022

- Relevant Courses: Software Analysis and Design, Discrete Structures, Applied Statistics
- Societies: Daedalus Scholar, Macaulay Business Club, Macaulay Computer Science Club, Hunter Geography Club, Anime Club

### Stuyvesant High School

New York, NY

ADVANCED REGENTS DIPLOMA WITH HONORS | GPA: 90/100

Jun. 2018

- Relevant Courses: AP CS, AP Physics 1 & 2, AP Calculus AB, Systems Level Programming, Software Development, Computer Graphics
- Societies: Stuyvesant Streaming Club, CyberStuy, Astronomy, Astrophysics, Archery, Anime Club

## Skills

**Proficient Languages** Python, C++

**Familiar Languages** C, Java, JavaScript, HTML, CSS

**Frameworks** Materialize, Bootstrap, Foundation, Flask, NodeJS, Jekyll

**Libraries** Vue.js, jQuery, D3.js

**Tools** Git, MySQL, SQLite3, Digital Ocean

## Notable Projects

### G4Lyfe: Engine Mark II | Graphics Engine

[github.com/kkhan01/Engine-Mark-II](https://github.com/kkhan01/Engine-Mark-II)

- Custom compiler and semantic parser to read simple MDL command scripts to export to .png or .gif files
- Tool transforms and animates shapes and curves, taking in preset commands with arguments or imports of .obj files
- Simulates realistic lighting and shading in a 4D space, optimized with z-buffer and backface culling

### Project Ångström

[angstrom.stuycs.org](http://angstrom.stuycs.org)

- Scouting site for FIRST Tech Challenge (FTC) use as well as for local teams to use internally
- Provides statistical analysis of data from The Orange Alliance to allow for greater insights

### Polybius

[github.com/kkysen/Polybius](https://github.com/kkysen/Polybius)

- The first browser rerouting download manager, customizable chrome extension
- Everything one download goes to one's download folder or any other folder one specified in setting, which is inconvenient
- Enables users to set up certain rules and have the rules automatically apply whenever downloading anything, else use the download directory

## Activities & Interests

### Stuyvesant Student Union

FULL STACK DEVELOPER

May 2017 - Jun. 2018

- Created the 'Stuy Club Pub' website in Node Express, which showcases the information of 150 clubs and teams as well as enables students and faculty to reserve available rooms appropriate for their activity
- Helped underclassmen develop 'Apollo', which displays each escalator's status using sensors and crowd-sourced data in real time

### Stuyvesant Investment Club

CHIEF ADMINISTRATIVE OFFICER

Sep. 2016 - Jun. 2018

- Developed lessons to teach traders/investors about trends and speculation of stocks, futures, and ETFs
- Created python program with quantopian library and pandas module for breakout volume analysis of stocks
- Tried to predict the magnitude of value change of a stock and an analog display depicting the predicted value using various news APIs, along with data from quantopian library

### Stuyvesant Parliamentary Debate

VARSITY MEMBER

Sep. 2016 - Aug. 2018

- Debated about the legality, morality, and feasibility of policies and procedures: theoretical or implemented
- Served as judge with a *tabula rasa* paradigm for unofficial rounds

## Employment

### Ali & Bains P.C. Law Firm

Forest Hills, NY

REAL ESTATE INTERN

Jun. 2016 - Aug. 2016

- Drafted legal checklists, closing documents, leases and affidavits for over 100 buyers and sellers
- Supported attorneys/ lawyers and handled clerical jobs as well as checked company escrow accounts
- Coordinated with other law firms and title companies to help close real estate transactions