KEVIN JIANG

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EDUCATION

Columbia University — New York, NY

- B.A. in Computer Science | GPA: 3.77 / 4.0 — Expected: May 2019
- *Relevant coursework:* Artificial Intelligence, Strategic Design, Natural Language Processing, Computer Vision, Computer Graphics, Systems Programming in C and C++, Computer Science Theory, Data Structures in Java

Newark Academy — Livingston, NJ

- Cum Laude Society | International Baccalaureate | GPA: 3.95 (/4.0) | SAT: 2300 — June 2015

TECHNICAL SKILLS

- **Languages:** Python, C, C++, Java, SQL, Cypher, HTML, CSS, Javascript | **Spoken:** Chinese, French
- **Tools:** TensorFlow, Keras, OpenCV, Numpy, Scipy, Tkinter, Requests, Neo4j, Git/Github, UNIX, Flask, Highcharts, Lottie
- **Digital Media:** Adobe Photoshop, Lightroom, Premiere, After Effects, Final Cut Studio, Cinema 4D, Sony Alpha, Canon EOS

EXPERIENCE

BNY Mellon — New York, NY

Product Design Intern — Summer 2017

- Prototyped data visualization tool with Microsoft HoloLens, demonstrating tangible business applications of augmented reality (AR)
- Wireframed dashboards for big data product (Asset Strategy View) generating market intelligence across $1.8 trillion in assets
- ***Secondary project****:* Produced professional marketing/recruiting video, saving ~$20,000 in budget normally spent on third-party digital media contractors. Featured on BNY Innovation Center homepage: https://youtu.be/YeiR3Zh2H9Y

Data Science Intern — Summer 2018

- Performed information extraction with NLTK (Python 3) on unstructured data (financial news, company announcements, etc.)
- Collaborated with ELK team to build system that contextualized extracted information with internal company-wide structural data
- Assessed various anomaly detection algorithms (k-means, k-modes, Bayesian networks, etc.) to be used in trade-failure detection system

Freelance Digital Artist — New York, NY

Media Production — December 2015 - *Present*

- Professional photography, film production, motion design, and graphic design
- *Clients:* The United Nations, Lincoln Center, The Juilliard School, MBJ London, Yin Yue Dance Company, and Estelle Finkel

Columbia Photography Association — New York, NY

President — October 2015 - *Present*

- Built application to automate job-handling workflow and book-keeping, saving board members over 25 hours of work time per semester
- Coordinate over 150 paid photo shoots per semester and maintain relationships with over 10 regular clients, both on and off campus
- Manage operations and delegate responsibilities for 7 board members and 40 student photographers

PROJECTS

Rubik's Cube Solver

- OpenCV in Python 3 to scan sticker colors on a scrambled Rubik's Cube
- Implemented Kociemba's algorithm to find optimal solution for any given valid cube state

3D Graphics Rendering Engine

- Developed C++ program that parses SCN files and renders photo-realistic 3D scenes based on the Blinn-Phong shading model
- Implemented functionalities such as Monte Carlo ray tracing, diffuse shading, reflections, and refraction

Freelance Job-Handler (Columbia Photography Association)

- Generates stylized/branded PDFs for invoices, terms of service contracts, and release forms
- Integrates with Google Drive API to populate necessary document text fields (i.e. payment amount, job date, client email, etc.)

AWARDS

- *Music:* Lincoln Center Outstanding Soloist, Vail Jazz All-Star, National YoungArts Winner, Manhattan School of Music Soloist, NJ All-State
- *Academic:* National Merit Scholar Finalist, Columbia College Dean's List (2016, 2017, 2018), Cum Laude Society
- *Film:* NA Film Festival (1st Place), New Jersey Bar Association Martin Luther King Day Film Festival (2nd Place)

EXTRACURRICULARS

Jazz Saxophonist & Trombonist

- Perform professionally on trombone and saxophone at major venues such as Lincoln Center (NYC), Noto (Japan), Monterey Jazz (CA)
- Featured on Neil deGrasse Tyson's television show *StarTalk* alongside Sean Lennon, Herbie Hancock, and Wayne Shorter

Rubik's Cube Speedsolver

- Record solve time: 7.54 seconds. Ranked top 10% worldwide by the World Cube Association
- Taught a class of elementary school students to solve Rubik's Cubes using a basic method consisting of 7 algorithms