James Wong

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EDUCATION

Columbia University   New York, NY

B.S. in Computer Science, GPA: 3.39/4.0, *Dean's List,* Dual Bachelor of Science and Arts Degree Program   **May 2020**

- Coursework: Data Structures, Algorithms, Operating Systems, Distributed Systems, Databases, Networks, AI, NLP, UI Design, PLT, Comp Vision, iOS Dev, Agile, Applied Machine Learning (S'20), Applied Deep Learning (S'20)

Albion College   Albion, MI

B.A. in Engineering Physics with Minor in Applied Mathematics, GPA: 3.76/4.0, Dean's List   **May 2018**

- Teaching Assistant: Data Structures in Java (F'17), Intro to Programming (S'17)

SKILLS AND ACTIVITIES

Languages: Python, C/C++, Java, JavaScript, SQL, Go, OCaml, R

Tools: Git, Linux, Bash, ReactJS,s Flask, AWS, GCP, PostgreSQL, MySQL, HTML/CSS

Organizations: App Dev Initiative (ADI), CU Game Dev, CU Rock Climbing, International Student Union (ISU)

Activities: DevFest Hackathon (S'19), CS3157 Hackathon (F'18), MCM Math Modelling Contest (S'18)

EMPLOYMENT

DLD Asset Management, LP   New York, NY

Software Engineering Intern   **Summer 2019**

- Built software tools to assist hedge fund portfolio managers in managing risk and achieving positive returns
- **Converts**: (AWS/Flask/jQuery/PostgreSQL) Full stack web app that helps visualize and analyze convertible bonds
- Worked under experienced technology consultant to produce industry standard code with daily code reviews

Deloitte Touche Tohmatsu Ltd   Hong Kong

Intern, Advisory in Audit   **Summer 2018**

- Used Python and VBA to automate review process of IT protocols and controls
- Implemented scripts in ACL software to perform auditing and data analysis tasks

SUNeVision Holdings Ltd   Hong Kong

Software Engineering Intern   **Summer 2018**

- Assisted in Oracle data migration with documentation of essential data center operations
- Developed informational web applications using LAMP stack (Linux, Apache, MySQL, PHP)

Albion College Information Technology   Albion, MI

Programmer Analyst   **Aug 2017 – May 2018**

- Developed data reporting web applications using reporting enterprise software Argos
- Implemented SQL queries to extract information from Oracle database

PROJECTS

WRR, *Operating Systems* (C)   **Fall 2019**

- Implemented weighted round-robin CPU scheduler with load balancing for Linux kernel

PANAMX, *Programming Languages & Translators* (OCaml/LLVM/C)   **Spring 2019**

- Developed a general-purpose programming language specialized for efficient matrix manipulation

ShardKV, Distributed Systems Fundamentals (Go)   **Fall 2019**

- Built key/value database service that shards keys over a set of replica groups based on Paxos

BitrateStream, Computer Networks (Python)   **Fall 2018**

- Built TCP server that streams online videos while optimizing quality by detecting bitrate

OscilloPi, FURSCA Summer Research (Python/KiCAD)   **Summer 2017**

- Integrated Raspberry Pi and oscilloscope with Python UI and custom printed circuit boards designed in KiCAD