

# James Wong

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## EDUCATION

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### Dual Bachelor of Science and Arts Degree Program

**Columbia University**, School of Engineering and Applied Science, New York, NY

May 2020

*B.S. in Computer Science, GPA: 3.39/4.0, Dean's List (Spring 2019)*

- Coursework: Data Structures, Algorithms, Operating Systems, Distributed Systems, Databases, Networks, AI, NLP, UI Design, PLT, Computer Vision, Advanced Programming (C), CS Theory, iOS Dev, Agile, DevOps

**Albion College**, Albion, MI

May 2018

*B.A. in Physics with Minor in Applied Mathematics, GPA: 3.76/4.0, Dean's List (Spring 2015 – 2018)*

## EMPLOYMENT

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**DLD Asset Management, LP**, New York, NY

Summer 2019

*Quantitative Intern*

- 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 visualizes and analyzes financial instruments
- Worked under experienced technology consultant to produce industry standard code with daily code reviews

**Deloitte Touche Tohmatsu Ltd**, Hong Kong

Summer 2018

*Intern, Advisory in Audit*

- 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

Summer 2018

*Software Engineer Intern*

- 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

Aug 2017 – May 2018

*Programmer Analyst*

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

**Albion College**, Albion, MI

Feb 2017 – Dec 2017

*Teaching Assistant, Data Structures in Java*

- Led lab sessions, assisted with grading assignments, held weekly office hours

## PROJECTS

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- **Rotate:** (C) Kernel synchronization syscalls that allow processes to block on rotation events on Android emulator
- **panaMX:** (OCaml/LLVM/C) Programming language specialized for matrix manipulation
- **OscilloPi:** (Python/KiCAD) Raspberry Pi oscilloscope built with Python UI and custom printed circuit boards
- **ImageCaption:** (Python) A neural networks language generator that generates captions for images
- **BitVid:** (Python) TCP server that streams videos while optimizing quality by detecting bitrate

## SKILLS AND ACTIVITIES

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

**Tools:** Git, Linux/UNIX, Flask, Agile/Scrum, AWS, GCP, PostgreSQL, MySQL

**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)

**Fluent:** English (115/120 TOEFL), Mandarin, and Cantonese