YU MING **HE**
DATA + SOFTWARE

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Skills and Interests

Technologies: C/C++, Python/Pandas/NumPy, Java, JavaScript/Node.js/React.js, PHP, SQL, R, MATLAB, Unix, Git
Interests: Data Science, Competitive Programming, Piano, Sport Swimming, Literature, Film/Theatre

Experience

Citadel
New York City, NY
Software Engineer Intern　*Jan - April 2021*
‣ Incoming Software Engineer Intern. Delayed due to the global pandemic.

Facebook AI
Menlo Park, CA
Data Engineer Intern　*May - Aug 2020*
‣ Developed data pipelines to sample and sanitize Instagram Image data and used computer vision classification modelling to detect underlying distributions, trends, and bias in image features.
‣ Uncovered dataset shift between production Instagram Images and Computer Vision Classification Training Data using emerging methodologies such as Black Box Shift Detection and the Kolmogorov-Smirnov Test Statistic.

Statistics Canada
Ottawa, ON
Data Science Intern　*May - Aug 2019*
‣ Designed and implemented an unsupervised error-estimation algorithm in R and C++ with Statistical Bootstrapping and Monte Carlo Simulation, halving average runtime compared to the original implementation.
‣ Implemented a record linkage algorithm for encrypted profiles of Canadian Citizens using probabilistic data structures and tested on sample of 1 million records.

Delta-Q Technologies
Burnaby, BC
Software Engineer Intern　*Jan - April 2019*
‣ Designed and implemented a Java data pipeline application to automate the process of validating and transferring firmware to data warehouses accessible by manufacturers overseas.
‣ Decreased runtime of a file-parsing application through refactoring and parallelizing execution with Java threads.

Education

University of British Columbia
Expected Graduation: April 2021
Honours, Bachelor of Science in Statistics and Computer Science　*cGPA: 3.8+, Major GPA: 3.9+ / 4.0*
‣ Involvements: Building Futures Scholarship, Rutherford Scholarship, NSERC Award, Dean's Honour List, Vice President: Undergraduate Statistics Society, Elected Faculty Representative, Co-Chair: Student Building Commission
‣ Relevant courses: Artificial Intelligence, Advanced Algorithms, Numerical Computation, Statistical Inference.

Technical Projects

⭘ **RLEE** (R, C++)
‣ An unsupervised error estimation algorithm on linked records in a constrained population.

⭘ **Minutes Made** (React.js, Node.js, Python, PostgreSQL, Docker, Redis)
‣ Web application which live-transcribes meetings and performs action items upon spoken key-phrases.

⭘ **A. Ladha Bookings** (Python)
‣ An automated bookings system for the highest trafficked student building on the UBC campus.