

BOWEN JIANG

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EDUCATION

Carnegie Mellon University · School of Computer Science

Pittsburgh, PA

Bachelor of Science in Computer Science

Expected May 2027

- GPA: 4.0/4.0
- Coursework: Imperative and Functional Programming, Theoretical Computer Science, Honors Linear Algebra and Vector Analysis, Discrete Mathematics

Raffles Institution

Singapore

Singapore–Cambridge A-Levels

Dec 2020

- A-Levels: 90/90, SAT: 1600/1600
- Singapore National Olympiad in Informatics · Gold
- IMDA SG Digital Scholar

EXPERIENCE

Government of Singapore Investment Corporation

Singapore

Quantitative Analyst Intern

Jan 2023 – Jun 2023

- Developed computational and mathematical techniques for extracting signals, treating option volatilities, and portfolio optimization
- Built new R and Python software packages with accompanying documentation for use by team members according to management requirements
- Accelerated routines using C++, vectorization and parallelization techniques
- Produced long-form white paper and presented it to senior team members
- Technologies used: R, Python, C++

Republic of Singapore Navy

Singapore

Section Commander

Jan 2021 – Nov 2022

PROJECTS

Lambdawarden

github.com/bowen4/lambdawarden

- Haskell implementation of Bitwarden password management server, compatible with upstream clients
- Focus on clean architecture with dependency inversion and separation of layers
- Technologies: Haskell, REST, SQL

Arbitrary Card Game

github.com/bowen2/acg

- Networked tabletop card game simulator
- Clients access a website and play cards on a virtual tabletop
- Technologies: Javascript, Node.js, HTML5, WebSockets

LetsBeRational

github.com/bowen4/letsberational

- R bindings for C++ library for efficiently computing option-implied volatilities

MISCELLANEOUS

Languages: C, C++, Java, Javascript, Haskell, Rust, Python

Interests: Running, Poker, Fencing