

# Kenneth Thomson

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🌐 <https://kenneth-thomson.com> | <https://github.com/KennethThomson>

## EDUCATION

### Boston University

Boston, MA

BA in Computer Science, **Cumulative GPA: 3.49/4.0**

Expected May 2024

- Honors: Dean's List (3 Semesters)
- Relevant Courses: Geometric Algorithms, Combinatoric Structures, Computer Systems, Probability in Computing, Concepts of Programming Languages, Analysis of Algorithms

### SIS Kelapa Gading (High School)

Jakarta, Indonesia

International Baccalaureate, **Final Grade: 39/45**

Jul. 2018 – Jul. 2020

- Salutatorian

## EXPERIENCES

### United Overseas Bank (UOB)

Jakarta, Indonesia

Intern (Finance)

Jun. 2022 – Aug. 2022

- UOB is a Singaporean multinational banking corporation ranked third in Southeast Asia ([www.uob.com](http://www.uob.com)).
- Utilized Python and its libraries (NumPy, pandas, Matplotlib, and seaborn) to extract and visualize big data.
- Researched, wrote, and published reports on how conditions affect economic indicators in Indonesia.
- Developed essential soft skills in the modern workplace such as leadership, communication, time management, conflict resolution and more.

### Upsilon Pi Epsilon (UPE)

Boston, Massachusetts

Member

Sep. 2021 – Present

- UPE is the first international honour society for the Computing and Information Disciplines.
- Underwent a technical interview and screening process to be selected as part of an exclusive CS honour society dedicated to improving technical and computing skills.

## PROJECTS

### CHIP-8 Emulator (C++)

- Coded an emulator that replicated the functionalities of a CHIP-8, an interpreted programming language.
- Implemented the memory, registers, stack, stack pointer, timers, keys, display, and all 34 instructional opcodes, as well as ROM loading and the fetch, decode, and execute cycle for the CPU.

### Secure Login and Registration System (PHP, MySQL)

- Designed an interactive website with a secure login and registration system using a web server database.
- Used prepared SQL queries and password hashing to prevent SQL injections and attacks for better security.
- Utilized PHP and MySQL to insert and retrieve private information into and from a secure database.

### Chess Data Visualization (Python)

- Analysed data from over 20,000 games to derive various conclusions about chess openings and endgames.
- Extracted and visualized the data using Python and its libraries (NumPy, pandas, Matplotlib, and seaborn).

## SKILLS & INTERESTS

**Technical:** Python, NumPy, pandas, Matplotlib, seaborn, Java, JavaScript, TypeScript, HTML, CSS, React, PHP, MySQL, C, C++, Assembly, OCaml, Git, LaTeX, MATLAB, Docker, Adobe Creative Cloud, Microsoft Office

**Languages:** English (Native), Bahasa Indonesia (Native), Mandarin, Japanese

**Interests:** Web Development, App Development, Software Development, Cybersecurity, Data Science, ~~long lists~~