Michael Pham

ktm-p.github.io

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Education

- **River City High School** — West Sacramento, CA
  High School Diploma — *Mar 2019 – Jun 2022*
  - GPA: 4.00
  - Graduated Salutatorian
- **University of California, Berkeley** — Berkeley, CA
  B.A. in Computer Science and Mathematics — *Aug 2022 – Present*
  Minor in Data Science
  - GPA: 3.87
  - Member of Upsilon Pi Epsilon Honor Society

Experience

- **River City High School** — West Sacramento, CA
  Teaching Assistant — *Aug 2021 – May 2022*
  - Worked as a student teaching assistant for school's AP Calculus course.
  - Taught some classes, presenting key concepts in a clear and concise manner to students, along with working through examples to help deepen their understanding of the material.
  - Helped design assignments such as in-class work, homework, and exam problems to reinforce core ideas.
  - Graded assignments from students and offered clear explanations on areas to improve upon.
- **River City High School** — West Sacramento, CA
  After-school Tutor — *Aug 2019 – May 2022*
  - Volunteer tutor for mathematics, ranging from Algebra 1 to AP Calculus BC and AP Statistics.
  - Helped tutor students from a variety of backgrounds in mathematics, clearly explaining core concepts to them and providing help on homework.

Projects

- **A Secure File Sharing System** | Golang
  - Designed and implemented a secure file sharing system using cryptographic library functions.
  - Implemented file creation, appending, sharing, and deletion among multiple users. Users could also sign on from multiple devices and edits would be reflected across all accounts.
  - Utilized symmetric encryption, HMACs, and digital signatures to ensure security.
  - Extensively tested implementation, writing over three thousand lines of test code. Utilized fuzzing as well.

Skills

- **Programming Languages**: C, Golang, Java, MATLAB, Python, R, RISC-V, Scheme, Snap, SQL
- **Frameworks/Libraries**: Matplotlib, Numpy, Pandas, Plotly, PyTorch, scikit-learn, Seaborn, TensorFlow
- **Tools**: Docker, gdb, git, Logism, Valgrind
- **Mathematics**: Abstract Algebra, Discrete Mathematics, Linear Algebra, Linear Programming, Logic, Numerical Analysis, Real Analysis
- **Other**: Bilingual (English/Vietnamese), Public Speaking, LaTeX, TikZ