Bryan Ngo

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Education

University of California, Berkeley — Berkeley, CA
B.S., Electrical Engineering & Computer Science — *2019 – 2023 (exp.)*

- GPA: 3.844
- Structure & Interpretation of Computer Programs, Data Structures, Machine Structures, Computer Security, Efficient Algorithms & Intractable Problems, Signals & Systems
- Designing Information Devices & Systems I/II
- **Organizations:** Eta Kappa Nu, Open Computing Facility

Experience

Designing Information Devices I Lab Assistant — Jan 2020 – Present
UC Berkeley EECS — *Berkeley, CA*

- Assisted 2 lab sections of approx. 50 people in introductory electrical engineering class
- Assisted in constructing single-pixel imaging, touchscreen, and rudimentary positioning system
- Transitioned multiple in-person lab content to online versions

Designing Information Devices II Senior Mentor — Aug 2020 – Present
Computer Science Mentors — *Berkeley, CA*

- Mentored 5-10 students in weekly tutoring sessions as member of largest student-led mentoring organization
- Taught analog circuit analysis, basic linear systems & control theory

Going Down the EECS Stack Decal Officer — Jan 2021 – Present
Eta Kappa Nu — *Berkeley, CA*

- One of the lead organizers in student-run class (https://decal.best/) of 20+ students
- Explored various topics in electrical engineering & computer science

Projects

NumC [Class] | *C, Python* — Nov 2020 – Dec 2020

- Wrote Numpy-like linear algebra library
- Utilized multiple performance programming technique (SIMD, cache optimization)
- Learned how to write a low-level API

Gitlet [Class] | *Java, Git* — Apr 2020 – May 2020

- Wrote prototype of Git
- Implemented branching, merging, remotes
- Learned low-level file I/O & extensive use of data structures

Not Monopoly Deal [Personal] | *Python, Java, Git* — Dec 2019 – Aug 2020

- Created text-based clone of *Monopoly Deal* card game
- Learned independent development & text-based game design

Technical Skills

Languages: Python, Java, C, Go, SQL, JavaScript, TypeScript, HTML/CSS, Julia, Haskell, RISC-V
Frameworks: JUnit, Jupyter Notebool, Pluto.jl
Developer Tools: Git, VS Code, IntelliJ
Libraries: NumPy, MatPlotLib
Miscellaneous: LaTeX, MS Office, Raster/Vector Image Design