William Ma

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Experience

Bosch / AR & NLP Research Intern
Jun 2022 – Present

HarmonyLang / Systems & PL Research
Sep 2021 – May 2022 [Link]
- Prototyped and researched Harmony Automata
- Implemented Harmony-to-Python transpiler

Low-Resource NER / NLP Research
Jan 2021 – Dec 2021 [Link]
- Researched into few-shot and fine-grained NER
- Experimented using transformer language models

Homebrew / Open-Source Contributor
May 2020 – Aug 2020 [Link]
- Unified 8 brew and brew cask commands
- Added cask support to 3 brew commands
- Added license information to 50% (ct. ~2500) homebrew-core packages

Cornell AppDev / Eatery iOS & Pod Lead
Sep 2018 – Dec 2020 [Link]
- Grew user base by 20% during 2019
- 9,600 MAU, 3,600 DAU
- Contributed over 80 peer-reviewed pull requests

Education

Cornell University / Ithaca, NY
2018 – 2022
- M.Eng. Computer Science
- B.S. Computer Science, Summa Cum Laude
- Minor in Mathematics

Projects

OceanScene / Real-time Rendering
Spring 2022 [Link]
- Built multi-stage deferred rendering pipeline in OpenGL using C++
- Implemented Tessendorf ocean simulation

Sharm / Systems Research Project
Fall 2021 [Link]
- Implemented, profiled, and benchmarked interpreter and source-to-source compiler
- Wrote and presented academic-style paper summarizing results

TriBlank / NLP Research Project
Spring 2021 [Link]
- Ideated, developed, and experimented on novel approach for three-way entity relation extraction
- Wrote and presented academic-style paper summarizing results

Xi / Compiler
Spring 2020
- Implemented dataflow analysis and optimizations
- Developed comprehensive test suite with unit, performance, and integration testing

Cello Mute / iOS App
2016 – 2018 [Link]
- Independently developed iOS app
- 39K downloads

Skills

- Python, PyTorch, Transformers, Computer Graphics, Swift, iOS Development