

# Jeremy Ku-Benjet

[github.com/jku20](https://github.com/jku20)

[jeremykubenjetschool@gmail.com](mailto:jeremykubenjetschool@gmail.com)  
[jeremykubenjet.com/professional.html](https://jeremykubenjet.com/professional.html)

## Education

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- **Bachelor of Science in Computer Science** August 2022 - May 2025 (expected)  
*Cornell University; Grade: 3.8/4* Ithaca, New York
  - ◇ Things I Studied at School: Computer Architecture, Compilers, Programming Languages, Distributed Systems, Math, Game Development, Writing
- **High School Diploma** August 2018 - June 2022  
*Stuyvesant High School; Grade: 95* New York, New York
  - ◇ Coursework Highlights: Complex Analysis, Math of Quantum Mechanics, Systems Programming

## Experience

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- **Bowers CIS Undergraduate Research Experience with Capra** June 2024 - August 2024  
*Undergraduate Researcher* Ithaca, New York
  - ◇ Worked on program synthesis for a general compiler frontend
  - ◇ Implemented a DSL for a general compiler frontend
- **Zhang Research Group** January 2024 - Present  
*Undergraduate Researcher* Ithaca, New York
  - ◇ Work on HLS for Accelerators
  - ◇ Use e-graphs to optimize logic synthesis
  - ◇ Integrate new optimizations into yosys
- **Course Management System X** October 2024 - Present  
*Developer* Ithaca, New York
  - ◇ Develop feature to collect student assignments into calendars
  - ◇ Fix concurrency bugs in the database
  - ◇ Contribute to adding grading rubrics
- **Course Staff: Cornell University** January 2023 - Present  
*Teaching Assistant* Ithaca, New York
  - ◇ Courses: Computer Architecture, Computer Organization and Systems Programming, Objected Oriented Programming and Data Structures, Computer Game Architecture
  - ◇ Develop infrastructure to run and grade a buffer overflow assignment
  - ◇ Prepare and grade exams and assignments
  - ◇ Hold office hours and course recitations

## Technical Skills

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- **Programming Languages** : Rust, C++, C, Python, Java, OCaml, Mercury (similar to Prolog), Verilog, Assembly (RISC-V and x86-64)
- **Technologies** : MLIR, Git, Unix Scripting, CMake, Make, Ninja, Docker
- **Human Languages** : English (Native)