

# Jeremy Ku-Benjet

Email: jeremykubenjetschool@gmail.com

Education	
<b>Cornell University</b>	<i>Undergraduate, Computer Science, GPA: 3.882</i>  Courses: Computer Architecture, Introduction to Compilers, Linear Algebra, Discrete Math, Multivariable Calculus, Object Oriented Programming, Functional Programming
<b>Stuyvesant High School</b>	Courses: Systems Level Programming, Computer Graphics, Complex Analysis, Math of Quantum Mechanics
Experience	
<b>Teaching Assistant</b>	Worked in a small team to design, implement, and test infrastructure to safely host over 300 students attacking vulnerable C programs  Worked in small team to write an automated grading tool  Staffed office hours and lab component of the course
Projects	
<b>3D Rendering Engine</b>	Implemented a 3D graphics engine supporting Phong and toon shading as well as animation based on a scripting language
<b>Dynamic Wifi Extender</b>	Investigated the feasibility of adjusting the signal strenght of an extender depending on the proximity to devices connected to reduce power usage. Implemented a demo on a Raspberry Pi.
<b>OCaml Autoexamples</b>	A WIP PPX written to automatically generate examples for OCaml funtion documentation based on input generators.
<b>Wordle Tool</b>	Wrote a tool find optimal starting words and the maximum game length of a game of Wordle.
Proficiencies	
<b>Languages</b>	OCaml, Rust, C, C++, Java, Python, Assembly (x86-64 and RISC-V), Verilog, Lua, Bash
<b>Tools</b>	Dune, Cargo, Make, Maven, Unix Shell, Version Control (Git), Docker, Debuggers (GDB, LLDB)
Awards	
<b>AIME</b>	Qualification for American Invitational Mathematics Exam (top 5% of AMC 12 participants, 2022)
<b>CUHSPC</b>	1st Place at Cornell University High School Programming Contest 2022
<b>Big Red Hacks</b>	1st of 204 participants at Big Red Hacks 2022 (hackathon hosted at Cornell University)