

Brian Poor

Logistics

I am graduating from Columbia University's engineering school one semester early and have taken many graduate courses. My coursework ends Dec 21, 2019. I will receive my degree February 2020.

Contact

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Education

Columbia University School of Engineering and Applied Science (2017-2020)

B.S.E in Computer Science, specialization in the Foundations Track (February 2020)

Duke University Pratt School of Engineering (2016-2017)

Music Conservatory of Westchester (2011-2016)

Honors' Program Certification in Piano Performance (June 2016)

Selected Graduate Coursework Formal Verification of Hardware and Software Systems, Analysis of Algorithms, Introduction to Cryptography, Machine Learning, Introduction to Computational Complexity, Modern Algebra, Numerical Methods

Selected Undergraduate Coursework

Duke University (2016-2017) - Computer Architecture, Data Structures and Algorithms

Columbia University (2017-2020) - Advanced Programming, Number Theory and Cryptography, Complex Analysis

Skills

Programming and Scripting

C, C++, Java, Python, C#, Javascript, Matlab, Mathematica, Swift, Ruby, HTML/CSS

Software

Unity, Unreal Engine, XCode, Android Studio, MATLAB, Mathematica, SMV

Arts and Design

Piano, Pro Tools, 2D digital art, Blender, 3D Modeling, Adobe Creative Cloud

Projects

Formal Verification Project (2019)

Hardware verification of multipliers using Algebra and Groebner Basis.

Machine Learning Hiring Program (2019)

Used 20,000 entries from a real company to design a hiring program. Implemented preprocessing and fairness techniques, PCA, and ensemble trees.

Attack on Learning with Errors (2018)

Used quick lattice reduction techniques to break specific cases of LWE in polynomial time.

Webserver implementation (2017)

Wrote front and back end web servers in C from scratch.

Pipelined 16-bit MIPS Design (2017)

Designed a pipelined circuit on Logisim to implement the entire MIPS RISC instruction set.