

Education

Princeton, NJ	Princeton University	Fall 2015 – May 2019
Bachelor of Science in Engineering - Computer Science		
• Overall GPA: 3.57 of 4.0 Departmental GPA: 3.82 of 4.0		
Relevant Undergraduate Coursework		
• Past: General Computer Science, Data Structures & Algorithms, Programming Systems, Contemporary Logic Design, Linear Algebra, Advanced Programming Techniques, Reasoning About Computation		
• Current: Operating Systems, Information Security, Introduction to Machine Learning		

Employment

Software Development Intern	Optiver	Summer 2017
Automated Trading Systems C++, Java https://www.optiver.com/		
• Implemented and coordinated firmwide protocol upgrades for sending orders to stock and options exchanges.		
• Developed functionality within firm's inhouse simulated trading environment to seamlessly switch between market and generated data sources for trader training courses.		
Research Assistant	Snyderphonics	2016 – 2018 Academic Years
Electronic Instrument Design & Development C, JavaScript http://www.snyderphonics.com/		
• Developed firmware for electronic instrument control surface.		
• Refactored web art installations for asynchronous loading, dropping page preload times from over a minute to seconds.		
Software Development Intern	Analytical Graphics Inc.	Summer 2016
glTF Pipeline JavaScript, Node.js https://www.npmjs.com/package/glTF-pipeline		
• Created command-line interface for client-end use of the 3D model optimization pipeline.		
• Implemented 3D-model cache optimization stage, increasing frame rates by up to 100% in vertex-bound cases.		
• Implemented pipeline stage to generate normals for input models that lacked proper vertex normals.		
STEM Intern	National Security Agency	Summer 2015
• Implemented cryptographic methods in Cryptol (Haskell based DSL) for formal verification.		

Projects

Meetable	http://becker.codes/meetable/	Spring 2017
• A web application to simplify scheduling meetings.		
• Integrates with users' Google Calendars to streamline time selection to only when users are available.		
• Stack: Node.js, MongoDB, Bootstrap Source: https://github.com/JoshuaStorm/meetable		
WebSynth	http://becker.codes/WebSynth/	Summer 2016
• A dynamic subtractive synthesizer built into a single webpage.		
• Stack: JavaScript, p5.js Source: https://github.com/JoshuaStorm/WebSynth		
Zenith	http://www.reachzenith.com/	Winter 2015
• A simple iOS app for reminding individuals to focus on their emotional well-being.		
• Stack: Swift, Firebase, Mixpanel Source: https://github.com/sebthedevev/Zenith-iOS		

Languages and Technologies

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- Most experienced with Java, C, and JavaScript.
 - Some experience with C++, Python, Cryptol, and Swift.
 - Proficient with Git version control.