

Education

Princeton, NJ	Princeton University	Fall 2015 – May 2019
Bachelor of Science in Engineering - Computer Science		
<ul style="list-style-type: none">• Current GPA: 3.52 of 4.0		
Relevant Undergraduate Coursework		
<ul style="list-style-type: none">• Past: General Computer Science; Data Structures & Algorithms; Computer & Electronic Music through Programming; Multivariable Calculus; Electricity & Magnetism• Current: Introduction to Programming Systems; Introduction to Logic Design; Linear Algebra• Upcoming Spring (Tentative): Advanced Programming Techniques; Reasoning About Computation		

Employment

Research Assistant	Snyderphonics	2016 – 2017 Academic Year
Electronic Instrument Design & Development C, JavaScript http://www.snyderphonics.com/		
<ul style="list-style-type: none">• Assisting in the production of novel electronic instruments and installation pieces.		
Software Developer, Intern	Analytical Graphics Inc.	Summer 2016
glTF Pipeline JavaScript, Node.js https://www.npmjs.com/package/glTF-pipeline		
<ul style="list-style-type: none">• Created command-line interface for client-end use of glTF-Pipeline stages.• 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 which lacked proper vertex normals.• Refactored asynchronous (callbacks) code to use promises.		
Cesium.js & Cesium Cloud JavaScript https://cesiumjs.org/ https://cesiumjs.com/		
<ul style="list-style-type: none">• Resolved bugs in the Cesium.js 3D globes library and Cesium Cloud front-end in support of the Cesium Cloud beta launch.		
STEM Intern	National Security Agency	Summer 2015
<ul style="list-style-type: none">• Implemented various cryptographic methods in Cryptol (Haskell-based domain specific language).• Produced \LaTeX literate specifications of Cryptol implementations.		

Projects

WebSynth	http://becker.codes/WebSynth	Summer 2016
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• A health app for improving ones mental focus and emotional wellbeing.• Developed with a team at Princeton University following a successful hackathon.• Stack: Swift, Xcode, Firebase, Mixpanel Source: https://github.com/sebthede/Zenith-iOS		

Selected Additional Experience and Awards

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- Princeton Computer Science Grader & Tutor - General Computer Science (COS126)
 - MIT Online Science, Technology, & Engineering Community Alumni
 - Northrop Grumman Engineering Scholar

Languages and Technologies

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- Most experienced with JavaScript and Java.
 - Some experience with C, Python, Haskell, and Swift.
 - Comfortable in Windows, Mac OS, and most Linux distributions.
 - Proficient with Git version control.