

Zachary Butler

Machine Learning/Software Engineer

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<https://zackbutler.github.io/>

Education

Georgia Institute of Technology (August 2017 - Present)

- B.S. in Computer Science
 - Focus in Intelligence & Modeling and Simulation
- **GPA: 4.00 / 4.00**
- Relevant Coursework: Data Structures/Algorithms, Object-Oriented Programming, Combinatorics, Statistics and Applications, Discrete Math, Linear Algebra, Intro to Computing

Awards: Faculty Honors, Dean's List

Research / Projects

Research - Automated Algorithm Design (In progress)

- Research group focused on developing a framework that uses human algorithms and ML/genetic programming design techniques to create optimized human/machine algorithms

Project - Image Restoration/Inpainting (In progress)

- Project based around using partial convolution to restore damaged photographs

Experience

Metis Health (April 2018 - Present)

Executive Board Member, Full-stack Developer

- www.metishealth.org/about - Web application for hospital supply inventory tracking
- Created production application and database - C# ASP .NET, MS SQL Server, Amazon Web Services
- Managed project developing RFID system for reducing sanitation issues in hospitals - Java, Python, MS SQL Server

RKF Engineering Solutions, LLC (May 2018 - Present)

Software Engineering Intern

- Updated legacy codebase, recreating a tool for file analysis and increasing runtime by 10x - C++, Python, MS SQL Server
- Built an application to generate image files from text input - C++ Qt5, minizip framework

Upskill (June 2016 - August 2016)

Software Engineering Intern

- Enhanced Google Glass GDK's voice activation and use system - C# .NET
- Upgraded Bluetooth connection feature for Google Glass - C# .NET, Java

Technical Skills

Languages: Java, Python, C#, C++, SQL, MATLAB, HTML, CSS

Technologies: TensorFlow, deap, NumPy, Git/GitHub, Linux/Windows, Amazon Web Services

Programming: Multithreading, OOP, recursion, data structures, search + sort algorithms