

# Cody M. Jones

cmjones.gitlab.io

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codymjones@pm.me

## EDUCATION

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- **Georgia Institute of Technology** Atlanta, Georgia  
*Master of Science in Computer Science* Aug. 2021 – May 2023
- **University of Illinois at Urbana-Champaign** Urbana, Illinois  
*Bachelor of Science in Physics, GPA: 3.5/4.0, Major GPA: 3.8/4.0* Jan. 2014 – May 2019

## EXPERIENCE

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- **University of Illinois at Urbana-Champaign** Urbana, Illinois  
*Research Assistant* May 2018 – May 2019
  - **Semiconductor fabrication:** Maintained a large code base written in the LabVIEW programming language to control atomic layer-by-layer molecular beam epitaxy systems to fabricate conventional semiconductor devices and topological insulators.
  - **Cryogenics:** Assembled and programmed a sub-Kelvin helium-4 refrigerator to achieve low temperature (below 300 mK) magnetic measurements on topological insulators.
  - **Data analysis:** Utilized Python libraries such as pandas, matplotlib, and NumPy to troubleshoot issues preventing the helium-4 refrigerator from achieving sub-Kelvin temperatures. This resulted in a 40% reduction in the amount of helium-4 required to achieve sub-Kelvin temperatures.
- **University of Illinois at Urbana-Champaign** Urbana, Illinois  
*Course Assistant* Jan. 2015 – Dec. 2015
  - **Lesson planning:** Created lecture slides and notes, handouts for discussion sections, homework assignments, and exams using the L<sup>A</sup>T<sub>E</sub>X document preparation system.
  - **Office hours:** Provided instruction to students during office hours and on the online discussion forum with writing proofs, completing homework assignments, and preparing for exams.
  - **Grading:** Collaborated with the course director and other members of the course staff to design and implement fair and efficient grading procedures for homework assignments and exams.

## PROJECTS

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- **Multi-threaded HTTP server:** A multi-threaded server that is capable of serving static files for up to 25 clients simultaneously using an HTTP-like protocol.
- **NYC Subway Tracker:** A native Android app that displays real-time information about train arrivals in a station selected by the user on the New York City Subway system.
- **cmjones.gitlab.io:** My personal web site hosted on GitLab pages written in HTML, CSS, and JavaScript.

## SKILLS

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- **Programming Languages:** C, Python, Java, Bash, SQL, HTML, CSS
- **Tools:** Linux, Git, Android Studio, L<sup>A</sup>T<sub>E</sub>X, Mathematica
- **Natural Languages:** English (native proficiency), Modern Standard Arabic (limited working proficiency)