Cody M. Jones

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EDUCATION

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

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 LaTeX 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

- **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

- **Programming Languages**: C, Python, Java, Bash, SQL, HTML, CSS
- **Tools**: Linux, Git, Android Studio, LaTeX, Mathematica
- **Natural Languages**: English (native proficiency), Modern Standard Arabic (limited working proficiency)