

Jacob Lindland

Gainesville, FL

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SKILLS

- Programming: 6+ years of Python, Java, C#, Javascript, and 2+ years of MATLAB Data Science & AI toolkit
- Jupyter Notebooks, PyTorch, presentational & team communication, digital process automation, genetic algorithm evaluation, C1 fluency in German

EDUCATION

University of Florida

Expected May 2026

Bachelor of Science in Mechanical Engineering

GPA: 3.8

- Courses: Differential Equations, Calculus 3, Professional Communication, MATLAB, Numerical Analysis

WORK EXPERIENCE

GE Appliances, a Haier Company

Sep. 2024 – Dec. 2024

Manufacturing Quality Engineer Co-op

Louisville, KY

- Developed novel digitized data pipeline to monitor 10,000+ health indicators of 3,000+ ESD devices
- Eliminated 100+ hours of non-value-added work by automating reports in Excel with Javascript API
- Earned team 2x project funding through project pitches and progress presentations to upper executives

UF Education Research Lab | Mathworks Education Grant

Jan. 2024 – July 2024

Undergraduate Lead Researcher

Miami, FL

- Wrote 15+ image classification & clustering algorithm examples, lessons for AI & data science classes
- Led on-site deployment of 3 programs in underprivileged communities & conducted impact investigations
- Conducted 200+ user surveys and led interviews in collaboration with Principal Investigator

Pear Deck Learning

Dec. 2023 – Sep. 2024

Mathematics Subject Expert | Tutor

Online

- Doubled average quiz scores of 5+ students in math subjects from IB Math to Calculus 2, improved SAT scores

US Department of State | US Embassy Prague

July 2021 – Aug. 2021

Summer Analyst

Prague, CZ

- Improved safety of 200+ US Citizens traveling in Europe by redesigning a malfunctioning SQL database, restoring access to critical emergency contact information, fully compliant with Embassy data safety guidelines

PROJECTS & PUBLICATIONS

The 'Block-Buster' | Independent Study

Jan. 2024

- Created big-data scraping app to track highest-value transactions on Bitcoin blockchain & display their addresses

Optimizing Batch Testing to Decrease Long Term Disease Propagation

Mar. 2021 – Dec. 2021

Independent Study

Prague, CZ

- Investigated efficacy of novel batch testing techniques in reducing disease spread in Markov chain simulations

Radically rethinking computer science education | TEDx Speech

Sep. 2021

- Presented ideas on reinventing our computer science education system to education leaders and 200+ attendees

INVOLVEMENT

Theta Tau Professional Engineering Society

Sep. 2023 – Present

Philanthropy Head Chair

Gainesville, FL

- Directed the Philanthropy committee through expanded local impact & our first blood drive