

# Blayten K. Jones

759 Royal Oaks Pkwy, Apt 203

Fayetteville, AR 72701

**LinkedIn:** [linkedin.com/in/blayten-jones](https://www.linkedin.com/in/blayten-jones)

**Phone:** (870)494-1447

**Email:** [BlaytenKJones@gmail.com](mailto:BlaytenKJones@gmail.com)

**Website:** <https://blaytenjones.github.io/>

## BACKGROUND

---

**Languages:** C++, C, Python, C#, Bashscript, Java, Javascript, Verilog, PHP, CSS, HTML, & SQL

**Experienced in:** Git, Unity, Apache Spark, Lex, HuggingFace, Linux, SFML, & OpenGL

**Skill Sets:** LAMP Stack, Algorithms, Information Retrieval, AI, MVVM, Networking, NLP, Formal Languages, Data Mining, Hardware Architecture, Multivariable Calculus, & Databases

## EDUCATION

---

**University of Arkansas**

Fayetteville, AR • 2021-2025

B.S. in Honors Computer Science & Computer Engineering (Concentration in Cyber Security)

Minors in Data Analytics, Mathematics, & Psychology

GPA: 3.968

## PROJECTS

---

**Capstone Temporal Search Engine**

**Fall 2024-Present**

- Developing a working search engine using a database of archived web pages and a web crawler

**Autonomous Driving Car**

**Fall 2024-Present**

- Creating an embedded system architecture using C and the MicroBlaze CPU to create a car that uses sensors to navigate an obstacle course

**Raytracing Engine**

**Spring 2024**

- Created a 3D engine with different shading models using OpenGL and C++

**Cryptographic Algorithms**

**Fall 2023**

- Used PyCryptodome and hashlib libraries to implement AES, RSA, and HMAC

**Verilog Microcontroller Architecture**

**Fall 2023**

- Programmed a microcontroller architecture using Verilog and ModelSim and created a custom instruction-set

**Laser Tag Software**

**Spring 2023**

- Created a laser-tag system with server, hardware, and front-end functionality using Python

**Two-Dimensional Physics Engine**

**Spring 2022**

- Developed a Python-based physics engine for collisions and elasticity calculations

## VOLUNTEER AND WORK EXPERIENCE

---

- Paid research internship involving NLP and AI

**Summer 2024-Present**

- Created an LLM that uses several linguistic features for prediction of user personality

## HONORS, AWARDS, AND SCHOLARSHIPS

---

- Honors Fellowship at the University of Arkansas

**Fall 2021-Present**

- University of Arkansas Fellowship

**Fall 2021-Present**

- National Merit Scholarship

**Fall 2021-Present**

- College Ambassador

**Fall 2022-Spring 2023**

- Charles D. Brock Endowed Scholarship

**Fall 2022-Spring 2023**

- Arkansas Alumni Association Scholarship

**Fall 2021-Spring 2022**