

Abdulai Bah

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EDUCATION

Texas A&M University

Bachelor of Science in Computer Engineering

College Station, TX

Graduating May 2025

- GPA: 3.5
- Minor in Mathematics

SKILLS

Languages: C++, Python, Java, HTML, CSS, JavaScript, SQL, Verilog, Matlab, Armv8 Assembly

Frameworks: React JS, Node JS, Tailwind CSS, OpenGL, Ruby on Rails

Developer Tools: VS Code, Github, Cadence Virtuoso, LT Spice, Multisim

Technologies: Linux, PostgreSQL, MongoDB, Web-Scraping, Raspberry Pi, Arduino, Google Cloud

Additional Skills: Native French Speaker, Testing Equipment (Oscilloscopes, Data Loggers, etc.), Microsoft Office

PROJECTS

Debutant | *React JS, Tailwind CSS, MongoDB, Express JS, Python*

June 2024 – Present

- Deployed a publicly hosted full-stack language-learning platform with 30+ users
- Built a web-scraper to populate MongoDB database with hundreds of international entries
- Leveraged Google Cloud Platform to translate thousands of sentences to populate a library of content
- Established a Rest API with Express JS to authenticate users, store user data, and serve content
- Employed Tailwind CSS and ReactJS to produce an animated, interactive interface

Graphics Processing Unit | *C++, OpenGL, Multi-threading, OOP, Recursion*

June 2024 – Present

- Executed Rasterization by processing thousands of mesh vertices and generating a corresponding image file
- Employed Blinn-Phong Shading and Texture mapping to assemble a first-person simulation with 100+ components
- Created a multi-threaded Ray Tracer complete with efficient collision-detection, projected shadows, and recursive reflection

Rev's Point of Sale | *Agile Methodology, React JS, Express JS, PSQL, Python, Java*

January 2024 – May 2024

- Devised a full stack Java application to allow cashiers to take orders and give managers the ability to perform administrative tasks
- Implemented an Express JS API to integrate with the PostgreSQL database and front end React application

Campus Closet | *Ruby on Rails, PSQL, Bootstrap*

June 2024 – Present

- Contributed to a Ruby on Rails application that allows for peer-to-peer student donations
- Designed and implemented front-end components with MVC architecture to interact with database

EXPERIENCE

Undergraduate Teaching Assistant

August 2024 – Present

Texas A&M Computer Science

College Station, TX

- Instructed on concepts such as variables and scope, branching, loops, and Object Oriented Programming
- Facilitated a practical learning environment by aiding in debugging and ensuring a firm grasp of class material

Developer

January 2023 – Present

Turtle Robotics

College Station, TX

- Implemented circuitry and developed a software interface in order to control relays, lights, motors, and sensors of an autonomous system
- Developed a React application and web server to allow remote interfacing with Raspberry Pi enabling long-distance interaction and status updates for consumers

Electrical Engineer Intern

June 2023 – August 2023

ExVeritas North America

Garland, TX

- Analyzed schematics and verified prototypes to ensure IECEx compliance and redundancy
- Doubled efficiency of explosion testing apparatus by replacing valves and adjusting circuitry
- Managed data loggers for monitoring heat, voltage, and current across 20 samples
- Researched testing equipment and contacted suppliers to enhance lab capabilities