

John Broaddus
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EDUCATION

- **Texas Tech University** Lubbock, Texas
Bachelor's of Science in Computer Science; GPA: 4.00 Jan. 2020 – May. 2023
- **Texas Tech University** Lubbock, Texas
Bachelor's of Science in Mathematics; GPA: 3.66 Jan. 2020 – May. 2023
- **University of Texas at Austin** Austin, Texas
Bachelor's of Science in Computer Science; GPA: 4.00 Jan. 2019 – Dec. 2019

EXPERIENCE

- **Knowledge of Technologies** Core Competencies
MERN Stack Developer, Data Science, Deep Learning, Blockchain Engineering, Web 3 Architecture
 - **Programming Languages:** Java, Python, C++, C, JavaScript, SQL, LC3, HTML, CSS, LaTeX, Julia, R, CSS, Rust, Solidity
 - **IDEs, Libraries, and Frameworks:** Django, Jupyter Notebooks, Android Studio, Eclipse, Visual Studio, .NET, Node JS, Express, REACT
 - **Databases:** Oracle DB, SQL Server, MySQL, PostgreSQL, MongoDB, Firebase
- **Sun Tile Corporation** Austin, TX - Remote
Software Engineer May 2020 - Present
 - **Notifications:** Service for sending invoices, push and alert notifications. Involved in features such as delivery time optimization, tracking, queuing and unit testing. Built an internal desktop application to account for inventory control
 - **Workflows:** Designed a method of sub contracting and out sourcing Information technology to expedite work day productivity.
 - **Data Collection:** Designed a social media funnel to attract local organic followers in an effort to crowd source data. This allowed for creating various tasks for data collection pertaining to subdivisions and commercial properties in Austin, TX. and surrounding areas.
 - **Data Warehousing:** Setup, schema design and management of Amazon for object relational databases. Built an internal app for access to the invoice data using a web interface. Using AWS and Dev Ops integration for daily workflow.
 - **Dev Environment:** Analytic environment based on docker and AWS, standardized the python and R dependencies. Using Python, python libraries such as SciKitLearn or seaborn
 - **Tensorflow:** TensorFlow is an open source software library for numerical computation using data flow graphs; primarily used for training deep learning models.
- **edX** Lanham, MD – Remote
Instructor Feb. 2022 – Present
 - **Unlocking Human Potential:** edX, Formerly known as, 2U, Inc. is an American educational technology company that contracts with non-profit colleges and universities to build, deliver and support online degree and non-degree programs.
 - **Responsibilities:** Facilitate discussion sections or tutorials; hold weekly office hours; grade homework, programming assignments, exams, or projects; keep records; distribute and copy reading materials; prepare answer keys or supplementary notes; and act as the course web-master.

PROJECTS

- **Multifaceted Toolkit:** Open source python library for financial data analysis and machine learning for finance.
- **Expense Calculations / MERN STACK:** Using React hooks users can create and delete transactions that will return the income, expense, and grand total in USD.
- **Instrument Calibration:** The primary purpose of calibration is to minimize any measurement uncertainty by ensuring the accuracy of equipment utilized. My project develops an algorithm using python and python libraries dependent on user input to calibrate two independent pressure measurement systems, the first being an analog gauge, the second being an electronic pressure transducer.