

# Alexander Parks

832-373-7056 | [alexanderparks@utexas.edu](mailto:alexanderparks@utexas.edu) | <https://www.cs.utexas.edu/~aparks/>

## EDUCATION

**The University of Texas at Austin**, Austin, TX

August 2021 - May 2025 (expected)

*Bachelor of Science, Computer Science and Mathematics*

- GPA: 3.82
- Relevant Coursework: Principles of Machine Learning I/II, Neural Networks, Trustworthy Machine Learning, Probability I, Applied Statistics, Predictive Analytics, Linear Algebra and Matrix Theory, Data Management, NLP Semantics, Intro to Mathematical Statistics, Intro to Stochastic Processes, Algorithms and Complexity, Data Structures, Software Engineering, Operating Systems, Computer Architecture, Geometry of Space (FRI), Intro to Real Analysis, Differential Equations

## SKILLS

**Data Analysis/Data Science:** Python, R, RStudio, Pandas, Scikit-Learn, TensorFlow, PyTorch, NumPy, Matplotlib, SQL, PostgreSQL, MySQL Workbench, Microsoft Excel

**Software Engineering:** Java, C, TypeScript, HTML, CSS, React, Flask, Node.js, Postman API, Jira

**Cloud:** Amazon Web Services (AWS), Google Cloud Platform (GCP)

**Miscellaneous:** Git, GitHub, GitLab, VS Code, Microsoft Word, Microsoft PowerPoint

## EXPERIENCE

**Regions Bank**, Atlanta, GA

May 2024 - August 2024

*Software Engineer Intern*

- Developed 5+ new portal components using TypeScript, C, and AWS CLI in an Agile framework for RelationshipIQ, a cloud-native onboarding platform for prospective Regions Bank business clients
- Generated 100+ unit and coverage tests for new components and behavior implemented into the platform
- Conducted research on the machine learning and artificial intelligence capabilities of 10+ peer banks
- Achieved first place in the 2024 Regions Bank AWS GameDay Hackathon

## PROJECTS

### [Evaluating Political Bias in Popular Generative LLMs](#)

- Engineered a dataset of 750+ sentence prefixes by scraping news websites
- Utilized 4 GPT models from Hugging Face and OpenAI API for sentence completion
- Performed a sentiment analysis on sentence prefixes and suffixes to measure bias in model output using Pandas and the Hugging Face sentiment metric

### [Spanish Energy Market Prediction](#)

- Assembled a dataset of 80+ features by combining Spanish energy and weather datasets over a 4 year span, using correlation analysis and Pandas for feature engineering
- Developed an ensemble of random forest, regression, and KNN models after testing the performance of 7 initial models
- Predicted the price of energy in Spain with an R-squared value of 0.933

### [DietRiot Web Application](#)

- Built and deployed a React web application to provide users with bespoke recipe and diet information
- Utilized HTML, CSS, and TypeScript to create model pages and instance cards for each recipe or diet
- Constructed a RESTful API with Postman and generated 40+ unit tests for the API and web application

## LEADERSHIP & COMMUNITY INVOLVEMENT

**Computer Science Transfers' Society (CSTS)**

August 2021 - Present

*President (2024 - Present), Treasurer (2023 - 2024), Member (2021 - Present)*

- Planned and budgeted events, such as transfer application and professional workshops, officer meetings, and socials
- Designed, acquired, and distributed merchandise to 50+ active members
- Authored and distributed an annual prospectus for both current and potential corporate sponsors

## HONORS AND AWARDS

- Hispanic Scholarship Fund Scholar Fall 2020/21/23/24
- Eva Stevenson Woods Endowed Presidential Scholar Fall 2024
- University Honors Fall 2021/22/24, Spring 2022/23/24
- Bitar Family Endowed Scholar in Computer Science Fall 2023