

# Evan Childers

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## EDUCATION

### The University of Alabama

*Bachelor of Science in Computer Science and Mathematics; GPA: 3.7/4.0*

Tuscaloosa, AL

Aug. 2022 – Dec. 2026

## TECHNICAL SKILLS

**Languages:** Python, C#, JavaScript/TypeScript, Java, SQL (Postgres), C/C++, HTML/CSS

**Frameworks:** React.js/Next.js, Node.js, ASP.NET Core, Flask, tRPC, Prisma, EF Core

**Cloud & Databases:** AWS (Lambda, S3, API Gateway), PostgreSQL, MongoDB, Redis, Docker, CI/CD

**Libraries & Tools:** pandas, scikit-learn, nltk, NumPy, Matplotlib, Stripe, WebSockets, Git, SSH, ETL Pipelines

## EXPERIENCE

### Founder and CEO

*SolSistr*

September 2024 – Present

Tuscaloosa, AL

- Built and launched an award-winning full-stack SaaS platform using **React/Next.js/Node.js, Python/Flask**, and **PostgreSQL**, winning a business pitch competition and gaining interest from national organizations.
- Engineered an intelligent matching engine using **text embeddings** and **vector similarity** operations to automate member-prospect pairing; reduced manual matching efforts by **99.97%**, accelerating a **multi-day** administrative process to **under 2 seconds**.
- Developed a centralized admin dashboard with custom drag-and-drop tools and a **Flask-based NLP pipeline** to generate AI conversation starters, replacing fragmented, spreadsheet-based recruitment workflows.

### Software Developer Coop

*The Center for Advanced Public Safety*

May 2025 – Present

Tuscaloosa, AL

- Architected RESTful API backend for multi-university safety platform using **C#, ASP.NET Web API**, and **.NET Framework**, designing scalable endpoints to support expansion from single to multi-institution usage
- Enhanced application reliability by implementing **1000+** unit tests using **xUnit**, establishing quality assurance processes that ensure consistent performance across different university safety systems and storage protocols.
- Collaborated in an **Agile** development environment participating in sprint planning meetings and daily standups using **Microsoft Azure DevOps** suite to track progress, claim work items and manage development cycles.

### Avionics Team Member

*Alabama Rocketry Association*

Aug. 2023 – Aug. 2025

Tuscaloosa, AL

- Designed and integrated custom plugins for **NASA's Open MCT software**, enabling real-time telemetry data display and button commands managed via **WebSockets** and a **Python ZMQ** server.
- Used **SSH** to modify and implement rocket functions controlled by a **Raspberry Pi**.
- Developed **React.js** application leveraging **Chart.js** to plot CSV testing data, implemented custom optimization techniques to automatically adjust resolution based on zoom level and dataset size to improve performance and reduce client-side lag by over **90%**.

## PROJECTS

### Netflix Engagement Decline Predictor | *Python, AWS (Lambda, S3), React, Selenium*

Dec. 2025

- Developed a predictive ensemble to forecast **weekly viewership declines** by integrating Netflix Top 10 data with Rotten Tomatoes user review sentiment.
- Engineered an **automated data pipeline** using **BeautifulSoup** and **Selenium** to aggregate quantitative viewing metrics and qualitative user reviews, performing feature engineering on lagged sentiment signals.
- Architected a **serverless backend** via **AWS Lambda and S3** with a **GitHub Actions CI/CD** pipeline that automatically triggers web scraping, model retraining, and JSON artifact updates every Sunday.
- Developed a local persistence caching layer for web scrapers using JSON serialization, reducing pipeline execution time by around **90%** and preventing API rate-limiting/IP blocking during weekly retraining cycles.

## LEADERSHIP EXPERIENCE

### Secretary of the Ambassadors for the College of Engineering

Feb. 2024 – Present

- Led **50+** prospective student tours for the College of Engineering, representing The University of Alabama at alumni gatherings, career fairs, and recruitment events.