

Brian Stoss

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EDUCATION

University of Virginia, Charlottesville, VA — *Bachelor of Arts in Computer Science, Minor in Data Science* **Graduated May 2025**

Relevant Coursework: Software Engineering | Data Structures & Algorithms I/II | Computer Systems & Organization I/II | Human-Computer Interactions | Data Systems | Data Ethics | Foundations of Machine Learning | Prototyping

Leadership & Activities: Recruitment Chair, Alpha Sigma Phi (managed \$20K+ budget) | Organization of Young Filipino Americans

SKILLS

- **Languages:** Python, Java, Golang, C/C++, JavaScript/TypeScript, HTML, CSS, SQL
- **Backend & APIs:** Object-Oriented Programming, REST APIs, OpenAPI, Express, Chi, Django, Node.js
- **Frontend & Mobile:** React, Next.js, JavaFX, Tailwind, UI/UX (Figma), Framer, HTML
- **Databases & Cloud:** PostgreSQL, MySQL, NoSQL, Firebase, AWS, Google Cloud
- **Data Science & ML:** Exploratory Data Analysis (EDA), Scikit-learn, TensorFlow, Keras, NumPy, Pandas, Seaborn
- **Tools & DevOps:** Git/GitHub, CI/CD (GitHub Actions), Testing, Jira, Confluence, Agile, Mendix

WORK EXPERIENCE

Kinetech Cloud, San Antonio, TX — *Business Engineer* **June 2025 - August 2025**

- Developed scalable CRUD features for Mendix applications, integrating AWS S3 storage and AI-driven classification.
- Built a custom Mendix PDF markup widget (Fabric.js, TypeScript), with tools for drawing, shapes, annotation, and comments.
- Applied OCR and mapping (Java) to split 300+MB documents into single sheets, improving organization and retrieval efficiency.
- Conducted user testing and logged 40+ bugs in Jira, directly improving UX across multiple applications.
- Won \$5000 company-wide competition for the best deployed solution (Next.js, TypeScript, Google Maps API, OpenAI).

Forge Software Skills Track, Charlottesville, VA — *Software Engineering Student* **March 2025 - June 2025**

- Completed 160+ hours of intensive training in technical and professional development.
- Engineered 3 fullstack applications (JavaScript, React, Express, Firebase), demonstrating end-to-end delivery.
- Collaborated with teams of 4-5, using Figma, GitHub version control, and agile communication tools.

OpenQQuantify, Vienna, VA — *Generative AI Engineer Intern* **August 2024 - November 2024**

- Conducted in-depth AI research, fine-tuning models using 500+ complex data sources and online resources.
- Implemented prompt engineering and model optimization, increasing model accuracy and efficiency by 20%.
- Scraped and preprocessed complex hardware & embedded systems data, enabling 99%+ accuracy with model training.

Series, New Haven, CT — *Software Engineering Intern* **September 2024 - November 2024**

- Revamped and managed the company website using Figma, HTML, and Framer, boosting member sign-ups by ~300.
- Refactored Firebase backend structures, boosting member retention by 25% through overhauled data organization.
- Coordinated with 5-15 cross-functional team members via Notion, Slack, and Mural, ensuring seamless collaboration.

PROJECTS

Sunshine Self-Help Social Media Application (*Typescript, Go, Next.js, React, Firebase, PostgreSQL*) **August 2025 - Current**

- Developed a social media platform with a Go (Chi) backend, PostgreSQL + Supabase for data storage, and a Next.js frontend.
- Integrated Firebase Auth and Storage, enabling secure authentication and scalable image hosting.
- Implemented local caching and optimized API calls, reducing redundant requests and improving client performance.

What's For Dinner Recipe Application (*Javascript, Node.js, React, Express, Firebase*) **June 2025**

- Collaborated with a team of 5 to build a full-stack recipe web app with CRUD functionality and role-based admin approvals.
- Incorporated the Edamam Recipes API, Firestore, and OpenAI chatbot, allowing users to interact with recipes dynamically.
- Designed a responsive React fronted and Express backend, ensuring seamless user experience and scalable data management.

Spam Email Classification (*Python, Pandas, Machine Learning*) **February 2025**

- Organized and directed a team of three in developing a spam detection model and presented findings to 60+ attendees.
- Processed and visualized 5,000+ emails leveraging ETL pipelines and Exploratory Data Analysis (EDA) techniques.
- Trained and tested KNN, Logistic Regression, and Decision Tree models, selecting the best-performing model with $\geq 95\%$ precision and accuracy, validated through cross-validation.

Project Management Application (*AWS S3, Python, Heroku, GoogleOAuth*) **December 2024**

- Built a full-stack project management platform with Django, integrating Google OAuth for secure authentication.
- Enhanced cloud storage and file handling by integrating AWS S3, reducing load times and refining scalability.
- Automated CI/CD pipelines using GitHub Actions, as DevSec/Ops, ensuring reliable deployment & testing.

When2Work Redesign Prototype (*UI/UX, Mockups, Wireframes, Figma*) **December 2024**

- Administered three user interviews to identify three key usability pain points in the When2Work scheduling platform.
- Produced 100% of the high-fidelity mockups in Figma, incorporating user feedback to enhance interface clarity and navigation.
- Delivered a professional pitch deck to an audience of 50+, outlining critical design improvements.