

# Joe Brijs

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## EDUCATION

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### Utah State University

June 2025

*B.S. Computer Science*

*GPA: 3.72*

**Courses:** Data Structures and Algorithms, Deep Learning, Cloud Computing, Natural Language Processing, Machine Learning, Web Development, Mobile Development, Software Engineering, and Operating Systems

## EXPERIENCE

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### Software Engineer

May 2024 – Present

*Elektrik*

*Lindon, Utah*

- Using a **Rust** backend and an **Angular** frontend, designed and implemented multiple search tools for medium voltage accessories by analyzing datasheets, integrating part information, and creating an intuitive search interface, contributing to a **25% revenue increase** compared to the previous year.
- Reduced the credit application submission time from days to minutes by creating an adaptive form based on business type and payment terms, automating the submission and approval workflow through Slack integration via GCP Pub/Sub, generating a PDF document of the submitted application, and incorporating the entire process within the web app dashboard.
- Spearheaded the transition of our web app from Angular to **React**, improving UI/UX, **reducing frontend codebase by 40%**, and enhancing developer speed and experience, resulting in a more efficient and maintainable codebase.
- Standardized two MongoDB collections by writing a CLI in Rust, saving an estimated 20 hours of employee time.

## PROJECTS

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### Stock Price Neural Network Web App | *Python, PyTorch, Flask, React.js*

- Developed an automated data pipeline that collects stock price data, engineers features, and stores the data in Amazon S3 for real-time predictions.
- Designed and trained LSTM neural networks to predict next-day stock prices for major tech companies.
- Implemented AWS Lambda functions for automated data fetching and prediction after market close, scheduled via AWS EventBridge Cron jobs to ensure timely updates.
- Created API endpoints using AWS Lambda and API Gateway to serve stock price predictions and compare actual vs. predicted prices.
- Built a dynamic React web app to display stock predictions and performance metrics, hosted on AWS S3, integrated with CloudFront for CDN distribution, and managed DNS with Route 53.
- This project is hosted at [www.faangfinance.com](https://www.faangfinance.com)

### AI Workout-Plan Web App | *React.js, Django, TailwindCSS, Git*

- Developed a full-stack web application that enables users to create, store, and track workout plans, providing a seamless fitness management experience.
- Integrated OpenAI Assistants API to offer both manual and AI-generated workout plans, allowing users to choose between custom or automated plan creation.
- Designed an intuitive, dynamic UI that enables easy addition and editing of workout plans, enhancing user interaction and overall experience.

### Habit Tracker Android App | *Kotlin, Android Studio, Jetpack Compose, Firebase, Git*

- Developed a user-friendly Android application for habit tracking, helping users monitor and maintain their daily routines.
- Connected the app to Firebase for secure data storage and integrated Google Ads to explore potential revenue streams.
- Implemented engaging animations to create a more responsive and visually appealing user experience.

## SKILLS

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**Languages:** Rust, Typescript, Python, Java, Kotlin, HTML/CSS

**Frameworks:** Angular, Actix Web, Django, RxJS

**Libraries:** React.js, Flask, Redux, RxJs, pandas, sklearn, PyTorch, numpy, matplotlib

**Developer Tools:** Git, AWS, MongoDB, Docker, Jira