

# Kristoffer Stobbe

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## PROFESSIONAL EXPERIENCE

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### Sr. Software Engineer, SunPower Corporation

*Austin, TX*

Jan 2022 - Present

- Led a team of engineers in designing and developing a dynamic, React-based financial application that streamlines customer solar financing. In collaboration with Project Managers and UI Designers, transformed a prototype into a robust, production-level solution that now efficiently processes over \$2 million in financing annually and serves thousands of customers across the continental U.S.
- Engineered and maintained the financial application's hosting infrastructure on AWS using the Cloud Development Kit (CDK) to ensure robust scalability and security, supporting a growing user base and enhancing system performance.
- Architected scalable APIs with Java Spring Boot, crafting both internal and external interfaces that securely interact with databases and integrate seamlessly with the user interface.
- Designed and built a NoSQL database and data pipeline to facilitate data collection for analytics. Collaborated with the Data Science team to integrate AWS SageMaker, significantly enhancing predictive modeling and operational efficiency.

### Software Engineer, SunPower Corporation

*Austin, TX*

Jan 2021 - Jan 2022

- Designed and deployed a full-stack React, Node, and MongoDB application for dynamic report generation, significantly reducing manual hours and seamlessly integrating with third-party trend analytics software.
- Boosted performance and scalability by containerizing the report builder and deploying it on Amazon EKS using Jenkins, complemented by Amazon ElastiCache and dynamic worker allocation.
- Developed an ETL data-pipeline for business operations reporting that integrated directly with third-party software, which streamlined data processing by 40% and enhanced reporting accuracy, significantly improving decision-making efficiency.

### Data Analyst & Engineer, SunPower Corporation

*Austin, TX*

Mar 2020 - Jan 2021

- Created and maintained a full-stack application for processing government lien filings, featuring optical character recognition and automated submissions. This system processed over 80,000 documents, saving more than 2000 hours.
- Enhanced operational efficiency by developing user-friendly interfaces and admin-controlled queries using Python (Flask), HTML/CSS, JavaScript, Ajax, and SQL, and by automating web scraping tasks for various teams with Selenium.

### Technical Support Engineer, SAS Institute

*Austin, TX*

May 2018 – Mar 2020

- Built a robust full-stack application featuring a Node API that significantly streamlines the collection and analysis of customer logs, accelerating the log collection process by 35% for engineers and enhancing data accessibility.
- Provided SAS programming and analytics support, and authored detailed solution notes on integrating SAS with Python.

## TECHNOLOGIES

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- **Programming:** JavaScript, TypeScript, Python, Java, HTML, CSS, R, SAS
- **Libraries & Frameworks:** React, Next, Vite, Node, Express, D3, Flask, Spring Boot
- **Data & Analytics:** SQL, DynamoDB, MSSQLServer, OracleDB, Pentaho, PowerBI, PowerQuery, Excel, QlikSense
- **DevOps:** AWS Management Console, AWS CDK, Github Actions
- **Versioning and Productivity:** Git, GitHub, Gitlab

## EDUCATION

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### Georgia Institute of Technology

**August 2023**

*MS, Data Analytics*

### Baylor University

**May 2018**

*BS, Electrical & Computer Engineering, Minor Mathematics*

*Waco, TX*