

# Shlok Gondalia

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## KEY SKILLS

- **Languages:** JAVA, JavaScript, TypeScript, Python, HTML, CSS, C++, C, C# and SQL.
  - **Libraries & Frameworks:** React, Node, Flask, Spring Boot, SASS, Bootstrap
  - **Testing:** Jest, Junit & Postman
  - **DevOps:** AWS Management Console, AWS CDK, Travis CI, Webpack, Docker & GitHub Actions
  - **Tools:** GitHub, Git, NPM, JIRA, Code Climate, ZenHub, and Slack.
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## EXPERIENCES

### SOFTWARE DEVELOPMENT ENGINEER, SunPower Corporation (Bellevue, WA) Apr 2023 – Present

- Helped the SPF team launch a Loan and Lease Origination System (LLOS) to help SunPower customers adopt solar energy faster and more easily, which currently processes about **\$25 million** of funds annually.
- Designed and implemented an API Key authentication system enabling our APIs for 3<sup>rd</sup> party client's usage.
- Helped the team design and launch RBAC in our system for users using our Loan and Lease Origination System.
- Designed and implemented data validation over large data models, thus increasing overall security for request payloads.
- Designed and implemented modular schemas to reduce code duplication by **20%** and make it more maintainable.

### SECURITY ENGINEER, Amazon (Bellevue, WA) July 2022 – Apr 2023

- Created an ML-based anomaly model to identify users with an unusual number of HTTP requests.
- Designed and implemented a system to cluster security issues in a date range.
- This feature will help security engineers prioritize solutions focusing on top risks in Alexa, reducing turnover time by **50%**.

### SECURITY ENGINEER INTERN, Amazon (Bellevue, WA) May 2021 – Aug 2021

- Designed and implemented an intelligent sampling model for data loss prevention.
- The ML model helped to catch clusters, which can result in data loss 99% of the time, thus reducing the overall risk by 99%.
- The initial pilot projected cost savings of **\$270k/month** for the service team.

### WEB DEVELOPER, Honors Dept. (Fort Collins, CO) Sept 2019 – May 2022

- Maintained and updated the website with various online services with over 1700 daily active users.
- Designed and implemented the online process for the Formal Thesis, which was previously based on papers.
- The front end uses MojoPortal and Bootstrap & the back end uses .NET and MS SQL Server.

### RESEARCH ASSISTANT, CS Dept. (Fort Collins, CO) Aug 2019 – Jan 2022

- Inspect data quality from six organizations through our tool to find anomalies.
- Upgrade **Python** code to improve the efficiency of the tool based on the inspection results.
- Worked on a tool that can find faults in data accurately without consulting the client, thus saving **2-3 days** of the client's time.
- One of the four authors of the [paper](#) published at the IEEE Big Data 2020 conference.

### CYBERSECURITY INTERN, Cybersecurity Center (Fort Collins, CO) May 2020 – May 2021

- Worked with Fort Collins Energy Department to find businesses and households that showed suspicious behavior.
- Used Long Short-Term Memory (**LSTM**) autoencoder tool & **SQL** Queries to analyze data for anomaly detection.
- This helped the Fort Collins Energy Department locate faulty equipment in the city.

### TA (SWE & Computer Organization), CS Dept. (Fort Collins, CO) Jan 2020 – May 2021, Jan – May 2022

- Attained students' team meetings to help them with their daily scrum.
  - Refined course content to make it more accessible to students & taught two labs a week consisting of **20** students.
  - Worked as a system admin to maintain grading servers so that there were no downtime issues.
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## EDUCATION

### Bachelor of Science in Computer Science (Summa Cum Laude) with Mathematics Minor

#### University Honors Scholar

Colorado State University (CSU), Fort Collins, CO

GPA: 4.0

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## PROJECTS

### TRIP PLANNER (React, Java, CSS, GitHub, Node.js & NPM) (More info can be found [here](#))

- Created a single page, mobile application, and microservices similar to Google Maps, where users can plan a trip.
- Semester-long project in a team-based Agile software development environment.

### MULTIPLAYER CHESS GAME (React, Java, CSS, GitHub, Node.js & NPM) (More info can be found [here](#))

- Create a mobile responsive, single-page Multiplayer Chess game with microservices.
- In this chess game, users can create an account and log in to play the game with other users.
- Passwords were hashed before storing, and the entire system ran on Authentication Token.