

# Arwinder Singh (Software Engineer)

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## Technical Skills

**Proficient :** HTML/CSS, JavaScript, React, Redux, Node, Express, JWT/bcrypt, MongoDB, PostgreSQL, Stripe, Agile, Git, Bootstrap, Material UI, Mocha/Chai, Jest, Heroku

**Knowledgeable :** Next.js, TypeScript, Python, AWS, Microservices, DevOps

## Technical Projects

### Gimmick-Store - Tech Lead

[tinyurl.com/gimmick-store](https://tinyurl.com/gimmick-store)

*Purchase random unnecessary goods*

*(React.js, PostgreSQL, Express.js)*

- Developed **REST APIs** such as admin and user functionalities using **Express.js** and database relationships in **PostgreSQL** enabling full CRUD operations
- Learned and implemented **Stripe** checkout through Stripe API within a few hours
- Saved users 8 seconds on registration by implementing SSO and **OAuth** protocol via GitHub
- Constructed fully responsive website on all devices using **MaterialUI/Flexbox**

### Puzzle-Break - Scrum Master

[tinyurl.com/puzzle-break](https://tinyurl.com/puzzle-break)

*Virtual escape-room creator*

*(React-Redux, Bootstrap, React-Modal)*

- Implemented core principles of **Agile** using scrum framework such as sprints/DSUs resulting in 25% increased productivity
- Configured continuous deployment from GitHub to **Heroku** saving 17 hours of development time
- Allowed users to customize puzzle placement by dynamically modifying **React State** with user input via **React Hooks**
- Designed website using **Bootstrap/Material UI** resulting in full responsiveness on all devices and leveraged **React-Modal** for a more pleasurable UX

### Task-Manager - Freelancer

[tinyurl.com/task-app](https://tinyurl.com/task-app)

*Simplified event scheduler*

*(Express.js, MongoDB, Material UI)*

- Allowed event scheduling using the **JavaScript Date** constructor and engineered a feature which alert users when a task was approaching deadline, resulting in 100% on-time task completion
- Implemented visual date picker using **MaterialUI** and date selection via **JavaScript date-fns** library
- Secured user data by implementing authorization middleware using **JWT** along with **bcrypt** to hash passwords preventing unauthorized users from accessing endpoints.
- Interacted with **MongoDB** to modify database and validate data by using an ODM called mongoose and an NPM library called validator and allowed concurrent user-sessions through tokens

## EDUCATION

**Fullstack Academy** - Certificate in Software Engineering

2021

- 28-Week full stack JavaScript web development bootcamp

**SUNY Old Westbury** - Bachelor of Science in Computer Science (108 credits)

2019

- Relevant Courses: Statistics, Applied Mathematics, Computer Programming I & II, Info Systems for Managers, Computer Architecture

**Harvard University** - CS50's Web Programming with Python and JavaScript

## Languages & Interests

*Fluent* - English | Punjabi • *(Conversational)* - Hindi | Urdu | Spanish

Reading • Learning • Sports/ESports • Self-Improvement • Psychology • New-Tech