

# PREETHU MARY GEORGE

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## Skills

- Python, Django, TypeScript, React.js, AWS S3, AWS DynamoDB, AWS Lambda, AWS Cloud9, Node.js, Express.js, Knex.js, HTML5, CSS3, SASS, JavaScript, XML, Bootstrap, REST API, JSON, Webpack, ViteJS, GraphQL, Prisma, Cloud
- Databases: - PostgreSQL, MYSQL, SQLITE
- Testing frameworks: - Selenium, Robot framework, Mobly (python test framework), XCUITest, Functional testing
- Other tools:- Source Control (SCM) - Git, Jira, Postman, Xcode, Visual Studio Code, MS office 365 - Excel, Agile/Scrum methodologies, Heroku, CI/CD, AI Training

## Projects

### TWITTER CLONE:

- This is a Twitter clone using **React.js** for the frontend and **Node.js** for the backend, with **SQL** for the database. The app allows users to post tweets, follow others, and engage with content in a way similar to Twitter. It leverages **TypeScript** for type safety, **GraphQL** for efficient data querying, and Apollo Client for managing the data flow between the client and server. **Prisma** is used for database interactions, ensuring easy and efficient access to the **PostgreSQL** database. The app also uses **CSS** for styling, **Formik** for handling forms, and **React Router** for navigation within the app.  
Github repo:- <https://github.com/Preethu-Mary/TwitterClone>

### AWS Project:

- Built a modern, serverless web application on AWS. It uses **Amazon S3** for static website hosting, **AWS Fargate** for containerized backend logic, **Amazon DynamoDB** for NoSQL data storage, **Amazon Cognito** for user authentication, and **AWS Lambda + Kinesis Data Firehose** for clickstream data processing and analytics. The setup is managed through **Cloud9 IDE** and includes a CI/CD pipeline.

### MELODY HOPPER (Brainstation Capstone):

- Developed a unique solution to address a real world problem of providing ear training to children by combining play and learning, creating an interactive responsive single page application game that helps improve music sight-reading skills using **React.js**, **CSS3** and **Express.js** for frontend, state management and backend development, with **SQL** as the database.
- Integrated **Web Audio API**, **Media Devices API** and **Pitchfinder.js** with various components for real time audio processing and pitch accuracy detection, enhancing the interactive experience. Created animations using **GSAP** to improve the user interface and engagement. Github Repo: [Melody Hopper Frontend](#), [Melody Hopper-Backend](#)

### POKEMON MEMORY GAME (Brainstation Hackathon):

- Designed and implemented a responsive memory-based web application game using **JavaScript** with advanced features such as card flipping, shuffle algorithms, and score tracking to ensure smooth, engaging gameplay. Utilized **HTML**, **CSS**, **SASS** for a user friendly interface and **Pokemon Web API** to fetch data, with **Postman** for **API testing** to ensure seamless functionality and user engagement. Github Repo: [Pokemon Memory Game](#)

## Education

|  |   |                         |                          |
|--|---|-------------------------|--------------------------|
| <b>Mcmaster University</b><br>Full Stack web development | <b><u>BTech, Software Engineering</u></b>   | <i>Hamilton, Canada</i> | <b>05/2025 - Present</b> |
| <b>BrainStation</b><br>Full Stack web development        | <b><u>Diploma, Software Engineering</u></b> | <i>Toronto, Canada</i>  | <b>08/2024 - 11/2024</b> |
| <b>Calicut University</b><br>Major in Computer Science   | <b><u>Bachelor of Computer Science</u></b>  | <i>kerala, India</i>    | <b>06/2017 - 4/2020</b>  |

## Certifications

- Python Institute - PCEP - Certified Entry-Level Python Programmer (06/2023)
- [Coursera - Responsive Web Design](#) (05/2020)
- [Coursera - Responsive Website Basics: Code with HTML, CSS, and JavaScript](#) (05/2020)

## Experience

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### Freelance Software Engineer

UPWORK

Remote, Canada

12/2024 - Current

- Developed an education curriculum website which is a CRUD application using React as frontend and django as Backend.
- Cleaned the curriculum data in excel using python pandas and imported it to the MYSQL database.
- Implemented lazy loading and cache in react so that react will not get hung due to huge amounts of data.
- Communicated with client and wrote down requirements and provided mock up UI in figma
- Developed a web scraping solution in Python PydanticAI framework using PhantomBuster API to extract LinkedIn profile information as requested.
- Developed a Python script to efficiently scrape hundreds of GitHub repositories using customized queries with the GitHub REST API for search, delivering the extracted data to the client on time for analysis.
- Developed an AI agent that analyzes a GitHub repository and provides insights. When given a prompt, it searches the repository to find relevant answers or information based on the query.

### Freelance AI Trainer

DataAnnotation

Remote, Canada

04/2024 - 07/2024

- Created and tested programming challenges across Python, JavaScript and SQL ensuring the quality and accuracy of responses generated by AI / LLM..
- Evaluated model performance by reviewing the code quality to improve robustness in various coding environments.

### Software Developer in Test

Deloitte

Bangalore, India

08/2023 - 01/2024

- Developed and executed test automation Bots using **Robot framework** and **Selenium in Python** for **acceptance testing** of a Oracle Cloud application, delivering high quality software. Received an award for successfully completing the highest number of test scenarios.
- Created **Python automated test scripts with** object oriented programming approach to automate the **functional testing of UI** of Google Assistant application on Android devices (TV, Mobile) using Mobly (Python based) automation test framework, contributing to a **20% increase in testing efficiency**, aligning with the overall test plan.
- Debugged and analyzed existing automation codes for the test cases and fixed bugs which increased daily test case pass rate.
- Worked with QA engineers to review existing practices and identified bottlenecks in test execution time. Implemented process improvements by introducing parallel test execution, which **reduced overall test cycle time by 30%**.
- Independently developed and maintained **XCUITest** UI tests in **Swift** for testing Google Assistant on iOS mobile applications with **Xcode**.

### Technical Support Analyst

Deloitte

Bangalore, India

08/2023 - 08/2023

- Worked as major incident manager for 100+ incidents impacting production for a world's biggest can manufacturing company who has plants over 100 sites across the world.
- Acted as a single point of contact (SPOC) or escalation point between technical teams including server team, network team, storage team, database team, applications team, exchange team, SCCM team and the stakeholders.
- Communicated and coordinated with plant managers from different parts of the world during major incident management.
- Owned day to day operations by monitoring infrastructure, sending health reports, auditing incident tickets, creating incident metrics reports and presenting it using powerpoint during the daily standup call.