# Mathew Joseph

Python Developer

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## Profile Summary

As a self-taught Python-Django Web Developer with a keen interest in AI, ML, and Data Science, I bring proficiency in Python, Django, HTML, CSS, Bootstrap, MySQL, and MongoDB, bolstered by a successful completion of a Django e-commerce project hosted on AWS. Through participation in the Young Innovators Program, our team secured funding, showcasing my problem-solving skills and attention to detail. Eager to secure a role in a forward-thinking company, I aim to contribute vibrant solutions to real-world challenges while continuously expanding my knowledge and skills in web development and emerging technologies, supported by strong communication, leadership, and adaptability traits.

## Technical Skills

**Languages**: Python, C, JavaScript, HTML, CSS
**Libraries & Frameworks**: Django,Django REST, FAST API(Beginner), React, Redux, Bootstrap, Tailwind css
**Database**: MongoDB, MySQL
**Tools & Platforms**: Git, Github , AWS, Redis
**Design & Prototyping**: Figma, SOLID WORKS
**Concepts**: MVT Architecture, Agile Methodologies

## Projects

**Clam Grading and Meat Separation unit: Engineering project** |

- Led the development of a unit solving real-world problems in clam meat processing.
- Our team developed a unit which can process clam in a hygienic and safe environment.
- Conducted detailed studies on current issues in clam meat processing and prepared reports.
- Iterated through design solutions consulting professionals and utilized **SOLIDWORKS** for designing the prototype.
- Conducted detailed analysis, purchased necessary raw materials, fabricated the system, and successfully tested it.

**AthletHaven: An e-commerce website for Athletes** | *HTML, CSS, Bootstrap , Django,Django ORM, MySQl, JWT*    | GitHub

- An E-commerce website where users can purchase sports shoes.
- Implemented **JWT** for stateless authentication .
- A Simple Responsive design using **CSS** and **Bootstrap**.
- Implemented robust security measures, including form validations on both client and server sides, along with the utilization of **CSRF** tokens and **Django forms**, to ensure resilience against potential threats.
- Gained valuable experience and insights through iterative development processes.

**SmartClass: An Online Classroom Platform** | *React, Zustand, Django, Django REST,, MySQL, WebSockets*    | GitHub

- Developed a real-time chat feature using **WebSockets** and **Django channels** to facilitate instant messaging between users.
- Implemented **JWT** for stateless authentication .
- Implemented role-based access control to manage permissions for different types of users (students, teachers, admins).
- Utilized MySQL for robust and scalable database management.
- Created responsive and user-friendly UI components using **Material UI**, **shadcn**, and **Tailwind CSS**.
- Implemented background tasks using **Django Celery** and **Redis** for handling asynchronous operations such as notifications and **Django celery-beat** to scheduled jobs.

## Achievements

Secured placement in the second round of the Young Innovators Program (YIP 2022), organized by KDISC (Kerala Development and Innovation Strategic Council), for developing a solution to a real-world problem. This recognition underscores the team's innovative approach and problem-solving capabilities in addressing contemporary challenges.

## Education

**Python-Django Web Development**                                  2024 - Present
*Brototype*                                                        *Trivandrum, Kerala*

**B.Tech in Mechanical Engineering (CGPA: 8.23)**                  2019-2023
*College of engineering, Pathanapuram*                             *Pathanapuram , Kerala*

**Higher Secondary (Biology Science)**                             2017 - 2019
*Kristu Jyothi Higher Secondary School, Changanassery)*            *Changanassery, Kerala*