

# Name

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## Profile

Final Year Computer Science student at the University of X. Skilled in full-stack development with experience in React, Django and cloud deployment. Looking for graduate developer roles.

## Relevant Experience

### Software Engineering Intern X Electronics

Jun 2024 – Aug 2025 (14 Months)  
*Hybrid*

- Developed and deployed a full-stack internal platform with React/Node.js frontend and Django backend using RESTful APIs, containerised with Docker and deployed on Azure VMs.
- Implemented scalable caching with Django framework and improved response times under load by 90%. Significantly speeding up team-wide testing and deployment.
- Implemented complex React components, including TanStack table and AG Grid with server-side processing.
- Contributed to design and implementation of a complex Django inventory database supporting automation in other internal components, debugged staging issues while preserving data integrity.
- Authored and debugged Docker and docker-compose files to streamline local development and production deployment.
- Maintained and debugged GitLab CI/CD pipelines for automated testing and reliable deployments.
- Performed remote debugging of full-stack applications on cloud-hosted VMs, resolving frontend, backend, and infrastructure-level issues.
- Collaborated in an international Agile Scrum team through sprint planning, peer code reviews, and cross-timezone communication.
- Presented the full-stack web application at multiple scrum of scrums meetings, clearly explaining new features, technical design choices, and business use cases to all other teams.
- Recognised and addressed team miscommunications during development cycles, helping clarify requirements and enabling faster resolution of blockers.

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## Education

University of X  
*B.Sc. in Computer Science*

Sep 2022 – Jun 2026  
*First Class Honours (Expected)*

- **Relevant Modules:** Data Structures and Algorithms, Foundations of Machine Learning, Software Engineering, Operating Systems, Advanced Computer Networks, Advanced Databases, Cloud Application Development.
- **Recipient of the UKESF Scholarship:** Recipient of the UKESF Scholarship for academic excellence and industry engagement in technology.
- **Final Year Project (in progress):** Improving The Generation and Maintenance of Code Documentation in Software Development Teams By Leveraging Large Language Models

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## Projects

### Sp planner Full-Stack Planner Application

- Built a full-stack planner web application using Next.js (frontend) and Django REST framework (backend), featuring JWT-based authentication and persistent user data.
- Implemented CRUD operations for user tasks, integrated PostgreSQL database models, and deployed using Vercel (frontend) and managed cloud services (backend).
- Designed responsive UI components in React/TypeScript, ensuring seamless cross-device usability and consistent performance.

## Java Multiplayer Game

### Object-Oriented 2D Game with Online Functionality

- Developed a 2D multiplayer game in Java using JavaFX for the user interface and Maven for project management and dependency control.
- Implemented core gameplay logic and object-oriented design patterns to handle player states, movement, and game physics.
- Built an online matchmaking feature enabling players to host and join live sessions over a network, managing concurrent connections and game synchronization.
- Applied unit testing with JUnit to ensure reliability across game components and maintain clean, modular code.

## Haskell Data Query Interpreter

### Functional Programming and Language Design

- Developed an interpreter in Haskell capable of parsing and executing custom queries on CSV datasets.
- Implemented core parsing and evaluation logic using functional programming principles such as recursion, higher-order functions, and immutability.
- Gained hands-on experience with language design concepts including abstract syntax trees, tokenization, and evaluation pipelines.

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## Technical Skills

Languages: Java, TypeScript, JavaScript, SQL, Python, HTML/CSS  
Frameworks/Tools: Maven, JavaFX, React, Next.js, Django, Node.js, Docker, Git, Linux, PostgreSQL, Azure  
Other: REST APIs, Agile/Scrum, CI/CD Pipelines, Test-Driven Development

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## Additional Education

X Grammar School Sep 2020 – Jun 2022  
A-Levels *Mathematics (A\*), Physics (A), Computer Science (A), Further Mathematics (B)*

X Grammar School Sep 2015 – Jun 2020  
GCSEs *12 subjects, all grades 7–9*

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## Additional Work Experience

Library Assistant November 2023 – January 2024  
X Library *Part-Time*

- Assisted library patrons with enquiries and resource navigation, developing strong interpersonal and communication skills.
- Maintained accurate cataloguing and loan records, demonstrating attention to detail and organisational efficiency.
- Collaborated with colleagues to improve front-desk operations and ensure a welcoming environment for all visitors.

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## Activities & Leadership

- **Pakistan Society – Sports Representative:**
  - Organised sports events, managing bookings, setup, and ensuring smooth execution for all participants.
  - Engaged with society members to encourage participation, foster inclusivity, and build strong team relationships.
  - Created short videos for events to make sports activities more fun and engaging for members.
- **Medical Technologies Society – Computer Science Team:**
  - Assisted in coding workshops and lectures for non-technical students, fostering interest in programming.
  - Supported the development of learning materials and helped attendees troubleshoot code during sessions.

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## Interests

- Fitness and gym training, basketball, and hands-on electronics repair (household and personal devices).