

# ASHAZ MOHAMED ASAF

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Ambitious software engineer with a passion for problem-solving, aiming to graduate from Heriot-Watt University, Edinburgh (Scotland, UK). Seeking to apply my skills and knowledge in a multinational company, providing innovative solutions that make a difference.

## EDUCATION

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### MENG SOFTWARE ENGINEERING (COMPLETING 2nd YEAR ON MAY 5TH 2025)

The five-year MEng Software Engineering degree is an integrated master's course, fully accredited by BCS, preparing students to construct robust, secure systems.

#### Course Highlights:

- **Year 1:** Java programming, interactive systems, web design and databases, computer systems, logic, and proof.
- **Year 2:** Interaction design, web programming, data structures and algorithms, programming languages, software design, database management systems, hardware-software interface, discrete mathematics.
- **Year 3:** Software engineering, networking, AI, operating systems, language processors, professional development, theory of computing.
- **Year 4:** Advanced topics, professional and industrial studies, major individual project.
- **Year 5:** Industrial placement, advanced software engineering topics.

#### Year 1 Modules:

- **Semester 1:** Logic and Proof, Introduction to Interaction Design, Praxis, Software Development 1
- **Semester 2:** Discrete Mathematics, Introduction to Computer Systems, Web Design and Databases, Software Development 2

#### Year 2 Modules:

- **Semester 1:** User Centered Experimental Design, Programming Languages, Introduction to Data Structures and Algorithms, Web Programming
- **Semester 2:** Database Management, Data Structures and Algorithms, Hardware-Software Interfaces, Introduction to Software Engineering

## EXPERIENCE

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- **Thasaamah Technology Internship (June 11, 2024 - July 11, 2024)**
  - Gained hands-on experience with Oracle Database and Oracle Apex
  - Developed functional databases to support company operations
  - Designed sample web pages integrating database functionality using Oracle Apex

## PROJECTS

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- **Design and Technology Coursework (iGCSE):** Created a point-of-sale display stand for a movie using CAD software.
- **ITGS IA Website (IB):** Developed a website for a photography business to facilitate online customer access to photos.
- **Praxis Coursework 2:** Individual 1500 word report on "The impacts of chatbots in our society."
- **Praxis Coursework 3:** Group presentation on Influential Programming Languages in 2023.
- **Software Development 1 Coursework 1 & 2:** Developed Java programs, incorporating Object-Oriented Programming.
- **Web Design and Databases Coursework 1:** Redesign a website using HTML, CSS, and JavaScript in a group project
- **Web Design and Databases Coursework 2:** Create a database and a web interface for querying the database using PHP and MySQL in a group project
- **Software Development 2 Coursework 1 & 2:** Java Program that uses Object Oriented Programming and Graphic User Interface
- **User-Centered Experimental Design:** Group experiment evaluating user satisfaction on different application layouts.
- **Web Programming:** Group project in creating a fully functioning website
- **Hardware-Software Interfaces:** Paired project on recreating the game 'Mastermind' using C and Assembler on a Raspberry Pi with uses of LCDs and LEDS to communicate messages

## CREDENTIALS

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### Education

- Heriot Watt University MENG Software Engineering (1<sup>st</sup> year Grade A)
- Doha British School - Year 13 IB (36 points, 2022 - 2023)
- Doha British School - Year 11 iGCSE (Grades 9,8,7, 2020 - 2021)

### Awards

- 3<sup>rd</sup> place in international UCMAS competition, Malaysia
- Grade 8 in keyboard from London College of Music

- Certificates: Qatar Youth Power Conference 2021, Qatar Leadership conference (THIMUN), Cybersecurity workshop (Hamad bin Khalifa University), Creative Fusion and Robotics (Texas A&M), School Merit Certificates
- Deputy Principals Award (Heriot-Watt University, 2023 - 2024)

### Training & Research

- Submitted 500-word essay on future of technology – Texas A&M University Summer Program

### Computer Literacy

- CAD software (Google Sketchup, Adobe Photoshop, Adobe Illustrator)
- Microsoft office
- Programming (Python, OCaml, Java, HTML, CSS, JavaScript, PHP, MySQL, JSON, Node.js, C, Assembler)

### Skills

- **Problem Solving:** High grades in higher-level mathematics and physics in IB; Grade As in Logic & Proof and Discrete Mathematics.
- **Programming:** Developed Java, Python, C and OCaml programs; worked on both frontend and backend development on websites using HTML, CSS, JavaScript, Node.js, mySQL.
- **Communication:** participated in MUN conference and in other speech clubs
- **Teamwork:** Collaborated on projects including robotics, website redesign, secure web applications and user centered experiments.
- **Critical thinking:** presented Theory of Knowledge exhibition during my IB course
- **Organizing & Time Management:** Meeting deadlines for submissions with accuracy during my IB course and in university

### Voluntary experience

- Created data entry forms for a center for intellectually disabled individuals in India
- Volunteered for various school activities, including beach clean-up and reading buddies programs

### Additional Skills

- Brown belt in karate from Japan Shotokan Karate Association
- Passionate about basketball with academy training

### Interests

- Exploring new technologies, pencil sketching and travelling

### Languages

- French (Grade 8 in iGCSE)
- Spanish Ab Initio (Grade 6 in IB diploma)
- Spoken Malayalam
- Beginner Arabic

## PERSONAL PARTICULARS

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- **Date of Birth:** February 20, 2005
- **Nationality:** Indian
- **Passport Status:** No. W8112534, valid till 07/02/2032
- **Visa Status:** Resident Permit
- **Driving License:** Holding valid Qatar and India licenses