

# Abdullah Fazli

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## Education

**Master of Science in Electrical and Computer Engineering: Software Engineering** Spring 2024 - Fall 2025 (CGPA 4.0)

The University of Texas at Austin

**Bachelor of Science in Information Technology** Spring 2019 - Fall 2022 (CGPA 3.6)

The American University of Afghanistan

### Honors and Awards:

- Two President's High Honor Awards for GPA above 3.7
- Two President Honor Awards for GPA above 3.5

## Technical Skills

**Programming Languages:** Python (3 years), C++ (1 year), Java (3 years), JavaScript (3 years), TypeScript (1 year), PHP (Beginner), C (System Programming Knowledge)

### Tech Stack by Activity:

- **Data Analysis and Machine Learning:**
  - Scikit-learn, NumPy, Pandas, Supervised ML, Power BI
- **Web Development:**
  - NodeJs, NestJs, VueJs, HTML, CSS, Tailwind, Bootstrap, RESTful APIs, WebSockets
- **Backend Development:**
  - MySQL, PostgreSQL, AWS S3, SQL (3 years), Design Patterns (Singleton, Factory, Observer, etc.), JSON Web Token (JWT) for Authentication
- **DevOps and Version Control:**
  - GitHub, CI/CD pipelines (GitHub Actions), Docker, Agile Methodology, Documentation (Swagger/OpenAPI)
- **System Programming and Operating Systems:**
  - System Programming with C, Windows, Mac OS

## Technical Experience

**Arbeiter-Samariter-Bund Deutschland (ASB)** August 2022 – February 2024 (1.5 Years)

### Backend Software Engineer I

- Designed and developed a full-stack clinic management system using NestJs and VueJs.
- Engineered modules for tracking patients' health data, finances, vaccinations, and medications.
- Developed an advanced administrative portal with dynamic reporting and data visualization using Chart.js.
- Implemented role-based access control and secure data management.
- Integrated JWT authentication and deployed using modern design patterns like MVC, Dependency Injection, and Factory Design.
- Maintained CI/CD pipelines with GitHub Actions and Jest for testing.
- Worked with AWS S3 for multimedia storage using the aws-sdk.

**Black Ace Software Solution Company**

Dec 2022 – Feb 2022 (3 Months)

### Software Development Intern

- Developed a full-stack dynamic website for a goods delivery company using NestJs, TypeORM, and VueJs.
- Collaborated in Agile teams to create an administrative dashboard for real-time content management.
- Integrated JWT authentication and rate-limiting with @nestjs/throttler.

- Managed CI/CD pipeline using GitHub Actions for continuous deployment.

**The American University Suleimani Kurdistan                      August 2021 – Nov 2022 (1.5 Years)**

*Contract Software Developer for Institutional Effectiveness Department*

- Developed a full-stack course assessment system using Django and React.
- Automated course review assignments for reviewers based on role-based authentication.
- Enhanced data accessibility by transitioning from paper-based reviews to an online platform, improving user satisfaction by 40%.

**Eagle Wise Chartered Accountants Company**

**Jun 2018 – Nov 2018**

*IT Technician*

- Provided technical support for hardware, software, and network issues.
- Managed IT assets and performed system installations and maintenance.
- Assisted in network administration tasks and user account management.

## Projects

### Generative Adversarial Networks (GANs)

- Implemented various GAN architectures (Vanilla GAN, CGAN, WGAN, DCGAN) for image generation.
- Used DCGAN with ReLU and Sigmoid functions for high-quality image generation.

### Library Management System (PHP, SQL)

- Developed a library management system recognized as the winning project at the American University of Afghanistan's IT Day.
- Implemented book tracking, PDF uploads, and an administrative dashboard for library operations.

## Relevant Coursework

- Statistical Machine Learning
- Distributed Systems
- Systems Programming
- Software Modeling

## Leadership and Management

- US Consulate and 51Labs Leadership and Entrepreneurship Training Certificate
- Managed the 6th annual IT Day at the American University of Afghanistan