

Eisa Adil

Software Engineer (Web, Android & AI)

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WORK EXPERIENCE

Software Developer Intern BlackBerry

05/2020 - 12/2020

Waterloo, ON

Worked on the BBForms framework (100,000+ lines codebase), an internal tool used to automate business processes for employees across BlackBerry. Work included improving the framework by fixing bugs, adding new features, improving performance, adding 3rd party integrations and creating supplementary tools.

Major Tasks

- Re-designed and overhauled BBForms Publisher, an application used by developers to publish automation processes.
- Spearheaded the integration and deployment of 3rd party services (e.g. Microsoft Active Directory, GitLab, Jira, SharePoint and Gerrit) into BBForms using REST APIs.
- Worked extensively on a scheduler application to make regular checks for specific scenarios and trigger appropriate action.
- Developed a tool that shows detailed charts and graphs about the usage of BBForms, e.g. resource hours saved per week.
- Constructed a recursive algorithm using dynamic programming to compute how many automation processes are currently active.
- Technologies: C#, Angular, HTML, CSS, Javascript, SQL, ASP.NET Core, Git, Gerrit, Visual Studio 2019, JIRA, Jenkins.

Web Application Developer Intern Tata Consultancy Services

07/2017 - 08/2017

Riyadh, Saudi Arabia

Worked on a prototype internal social network with all basic functionalities.

Tasks

- Designed and implemented the social network's authentication, posting, profile and searching. Used micro-services paradigm.
- Programmed a chatting module using web sockets for real-time asynchronous data transfer between client and server.
- Technologies: Angular 4, Java Spring Boot, PostgreSQL, HTML, CSS, JS, TypeScript, Postman, RxJs, SockJS, JDBC, GSON.

EDUCATION

Masters, Computer Science

University of Windsor, Windsor, ON

09/2019 - 10/2021

Cumulative Average 89.36/100

Relevant Courses

- Thesis - Content Based Image Retrieval using Hierarchical Decomposition of Feature Descriptors
- Courses - Pattern Recognition & ML, Visual Processing, Applied AI, Visual Processing, Advanced Neural Networks

Bachelors, Computer Science

Manipal Academy of Higher Education, Dubai

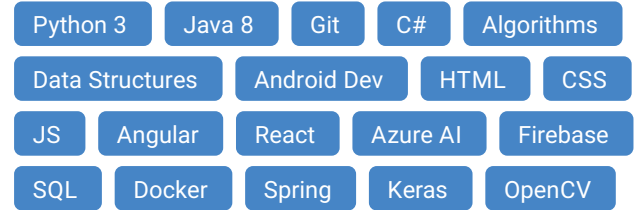
09/2015 - 06/2019

Cumulative GPA 8.78/10

Relevant Courses

- Courses - Data Structures, Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Networking, Databases, OS

SKILLS



PROJECTS

Thesis - Image Retrieval using Hierarchical Decomposition of Feature Descriptors (11/2020 - 10/2021)

- Devised a QuadTree-based scheme to represent an image's SIFT orientational features for indexing and retrieval. Each quadrant node in the tree represents the dominant orientation of a region in the image.
- QT image representations are converted to feature vectors and used in KNN algorithm and Siamese Neural Networks.
- Technologies: Java 8, Python 3, Keras, Sci-kit Learn, OpenCV.

AttendanceCam (03/2018 - 05/2018)

- Engineered a professional Android app that logs student attendance in a classroom through face recognition.
- Technologies: Java 8, Android, Azure Face AI, Firebase, OpenCSV.

Self Driving Car (01/2019 - 06/2019)

- Built a self-driving toy car with lane following and sign recognition capabilities using Computer Vision & Deep Learning. Compared techniques and analysed results in a research paper.
- Technologies: Python 3, Raspberry Pi, OpenCV, Tensorflow, Java 8, Linux.

Shopify (06/2018 - 08/2018)

- Developed a dynamic, functional and well-designed product catalogue website for vendors and buyers.
- Technologies: ASP.NET, C#, HTML/CSS, JavaScript, SQL.

Image Pixel Matching (05/2020 - 08/2021)

- Created a GUI to find a matching pixel in another image mathematically using Epipolar Geometry and ZNCC scores.
- Technologies: Python 3, Tkinter.

Project Sunshine (06/2017 - 08/2017)

- Coded a beautiful weather app on Android that takes data from the Open WeatherMap API and displays it on the screen ordered by date and filtered by place.
- Technologies: Android, Java 8.

ACHIEVEMENTS

IEEE Xtreme 12.0 (24-hour Algorithmic Challenges)

Ranked 1st in the United Arab Emirates - Team Ode2Code

IEEE Xtreme 11.0 (24-hour Algorithmic Challenges)

Ranked 2nd in the United Arab Emirates - Team CyberDecipherers