Ahmad Atallah

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Résumé

EDUCATION

2012-2017

Systems and Biomedical Engineering Department. School of Engineering, Cairo University Cairo, Egypt

- **Bs.c.** of Systems and Biomedical Engineering, GPA 3.2.
- **THESIS TITLE** GPU-Based Visualization Application for Two Projection 2D-3D Image Registration In Radiation Oncology

EXPERIENCE

Dec 2019—Aug

Software Engineer (Frontend)—Part-time at Qobra

2020

Started the core product desktop app with electron. Streamlined project's boilerplate to speed up development, with support for multiple tabs, shared state, and others.

Dec 2018—Present

Software Engineer (Frontend) at Swvl

Working on developing company's dashboards which includes a lot of front-end stuff besides some visualizations on maps. Also have the chance to participate in initiating the company's business dashboards, developing and publishing design system components packages on npm, with a continues development and delivering large set of transportation features.

Feb-Dec 2018

Software Engineer (Visualization) at Millensys Healthcare Solutions

Joined the medical imaging team to deliver and contribute in healthcare software solutions. My work included and not limited to using **OpenJPEG, LEADTOOLS, Windows API, OpenGL**, canvas drawing, advanced image processing techniques, 2D and 3D visualization (DICOM viewing, processing, and MPR). Through my working period, I was assigned to advanced DICOM viewer project(web based, and Desktop), reporting tool and others.

Oct 2017-Jan

Bioinformatics Intern at Pine Biotech

2018

Working on both educational and analysis platform provided me with great experience in understanding Next Generation Sequencing and its algorithms in Bioinformatics era.

SKILLS

Programming

Typescript, JavaScript, Scala, Ruby, Pascal, C/C++, OOP, Functional Programming.

Web Development

React, Angular, Redux, Jest, Tachyons, Styled Components, Emotion, Theme-UI, Material-UI, MDX, Story-

book, Gatsby, and others.

Build Tools

Webpack, Rollup, Gulp, sbt, CMake.

Database

SQLite, PostgreSQL, Mongo.

Visualization Tools

ThreeJS, D3, WebGL (Intermediate).

Version Control

Git, SVN.

Others

Vim, Docker, CI/CD, Shell Scripting, Static Site Generators.

COURSEWORK

Feb —Apr 2019

Functional Programming in Scala Specialization —Coursera

• Functional Programming Principles in Scala.

Feb —Aug 2018

Front-End Nanodegree —Udacity #

Apr 2018

Deep Learning Specialization —Coursera

- Neural Networks and Deep Learning.
- Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization. 🌞

PROJECTS

2020 Tachyons Styled TSX 🗘

- Bring Tachyons, implemented with Emotion and Styled System, into React app with types in mind.
- **Development** TypeScript, React, Emotion, Styled System, Tachyons, Webpack.

2019—2020 | Swvl Design System Components

- React-TypeScript components for Swvl design system.
- **Development** TypeScript, React, Rollup, Theme-UI.

2019—2020 | Swyl Business Dashboards

- React-TypeScript business dashboards for Swvl as a transportation service.
- **Development** TypeScript, React, Redux, Webpack, Theme-UI.

2017 GPU-Based Visualization Application for Two Projection 2D-3D Image Registration In Radiation Oncology —Graduation Project

- Visualization cross platform for fast 2-projection 2D-3D registration that assists in patient positioning process during radiation oncology treatment procedures. The software development included rendering multiple digitally reconstructed radio-graphs(DRRs) projection images from 3D CT volume, similarity measures, optimization, and a user interface to visualize the differences.
- **Development** C/C++, VTK, ITK, Qt, Qthread, OpenMP, OpenCL.

AWARDS & ACTIVITIES

I like watching, and attending software conferences, and workshops from all over the world.

October 2016

RDI Egypt Competition —Project Award.

My project, an automatic system for MCQ exams correction, was awarded the $3^{\rm rd}$ place in 2016 from RDI Egypt.

24th—27th October

EMB 2nd Biomedical Engineering Workshop.

Participated in the 4 themes of the workshop including:

- High Performance Computing.
- Medical Visualization.
- Software Engineering & Bioinformatics.
- Embedded Systems.

August 2014

IEEE EMBS International Student Conference —Project Award.

My Project, Derma, was awarded the 1st place from the IEEE EMBS 2014.