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Employment

Senior Python/Data Engineer	Opinov8/EnergyAspects	Spring 2021 – Now
<ul style="list-style-type: none">Revamping the company wide data infrastructure. (Python, GCP, AWS, Shooju)		
Lead Data/Analytics Engineer	Rubikal	Summer 2018 – Now
InsideTrack/College Confidential (US Based)		
<ul style="list-style-type: none">Implemented efficient data pipelines for 40+ US universities. (Python, Postgres, AWS, Docker, K8s, Fivetran)Lead development of building DW analytical models. (Snowflake, Redshift, Tableau, Metabase)Lead development of SW life cycle dashboards on top of CircleCI, Github, and Jira. (Stitch, AWS, Redshift)Lead development of tagging 1.5M educational forum discussions. (Python, AWS)		
Senior Data Engineer	Ahmed Al-Motaz Company	Summer 2017 – Summer 2018
<ul style="list-style-type: none">Lead development of company wide data pipelines. (Python, Redshift)Lead development of executive dashboards that supports daily decision making. (Python, ReactJS)		
Teaching Assistant	AAST (CS Department)	Summer 2017 – Summer 2019
<ul style="list-style-type: none">Courses: Object Oriented Programming, Computing Algorithms, and Data Visualization.		
Software Engineer	BADR	Spring 2016 – Summer 2017
Incorta/WhoKnows (US Based)		
<ul style="list-style-type: none">Implemented a dynamic JS-based library of 30+ chart types, with features like: drill down, group selection, hierarchical grouping, and resizing.Implemented APIs for 40+ chart components within 6 analytical dashboards.Developed app to enhance job/candidate hunting using text analysis/machine learning.		

Education

Alexandria, EG	Alexandria University	2010 – 2015
<ul style="list-style-type: none">B.S in Computer and Systems Engineering.Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture; Systems Programming; Computer Vision.		

Personal Projects

- Wikipedia Daily Hot Topics.** App shows top N topics visited. (Python, Hadoop, JS)
- Distributed Multi-Agent Classifier.** Classify items based on collected data from multiple distributed locations. (Java, JADE)
- Twitter Sentiment Analysis.** App that infers sentiment of tweets. (Python, Machine Learning, JS)
- Weather Application (iOS).** Weather App along with auto-complete functionality. (Google APIs, Swift)
- XO Game with AI Using Assembly .** XO game with MinMax algorithm. (X86 Assembly)

Languages and Technologies

- Languages** Python, Java, JavaScript and C
- Databases** Relational DBs, NoSQL DBs, and Timeseries DBs
- Cloud Services** Google Cloud and AWS
- Deployment/CI/CD** Docker, K8s, CircleCI, Github Actions, and CloudBuild
- Data Related** Hadoop, Spark, Redshift, Snowflake, Tableau, and RapidMiner
- Concepts** Microservices, Machine Learning, and Leadership