

## Education

---

**Tanta University** B.S in Computer Science & Engineering  
*Leadership: President of the Faculty Chess Club*

Sep 2019 - Jun 2024  
Major GPA: 92%

**Udacity** Web Developer Nanodegree

Jul 2022 - Oct 2022

## Professional Experience

---

### Software Engineer

Jul 2021 - Present

*UpWork - Freelancer*

*Remote*

- Earned Top-Rated Plus status, top 1% freelancers worldwide for customer satisfaction.
- Designed and developed a full-stack solution to optimize a multi-million-dollar Google Ads Campaign. The solution leveraged CPA data to identify areas for improvement and achieved a cost-per-acquisition (CPA) reduction of 35% resulting in a significant cost saving for the client.
- Designed and developed an API using Python for transferring crypto market data from a data source to the client website and increased the data retrieval rate by more than 40% via caching.
- Built automated trading software using Python, Flask, AWS, Redis, Docker, and the Interactive Brokers API (IBKR API), reducing the order filing time by more than 200% using asynchronous programming.

### Backend Developer

Dec 2022 - Present

*InkSpot - Open-source*

*Remote*

- Optimized InkSpot's (open source Medium clone) backend using Django ORM, reducing query execution time by 20%.
- Managed agile methodologies (scrum, backlog grooming, etc.) and leveraged DRF, Celery, Docker and implemented comprehensive test automation with Pytest achieving 80% code coverage.

## Relevant Projects

---

### B R O K E R | Python3 | Django | ChartJs | [Github](#)

- Architected a responsive web app using Django, ChartJs, and JavaScript (ES6) that allows amateur investors to create a trading account, buy and sell stocks virtually and view their trading portfolio.
- Implemented API caching strategy, reducing IEX cloud API calls by 60%.

### RPC-Chat| Go| gRPC [Github](#)

- Built a real-time chat app using Go and Remote Procedural Call (RPC) that supports 500+ users.
- Leveraging Go routines and channels for efficient concurrency, achieving 25% faster message delivery.

## Technical Skills

---

**Programming languages:** Experienced in Python and Go. Familiar with C/C++, Java, and JavaScript (ES6).

**Frameworks:** Django (with DRF), Fast API, Flask, SQLAlchemy. Familiar with Keras and Tensorflow.

**Cloud & Others:** AWS Lightsail, EC2, Docker, DynamoDB, RDS, Linux, VsCode, GitHub

## Awards, Competitions and Extra-curriculars

---

- **ACM ACPC - Kickstart** (2021): Competitive programming contest achieved a place in the top 15%.
- **Banque Misr - Entrepreneurship** (2022): Selected for a three-month-long internship led by the second largest bank in Egypt, awarded Udacity Web Development Nanodegree scholarship.