

# MOHAB M. ELSHEIKH

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## WORK EXPERIENCE

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### Arch17, Backend Developer

Jul 2018 – Present

- Arch17 (based in Shenzhen, China) is a web portal for architecture and construction services, which connects professional suppliers and customers. Arch17 provides B2C B2B, and C2B online sales services.
- Remote Backend Developer, Developing and building the backend system of Arch17's main e-commerce website.
- Tech stack: PHP, MySQL, CodeIgniter.

### Arch17, Intern

Nov 2017 – Mar 2018

- Remote Web Developer, Intern with a team to design and build the backend system of Arch17's main e-commerce website.
- Tech stack: PHP, MySQL, CodeIgniter, HTML/CSS/JS, JQuery, Bootstrap.

## EDUCATION

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### Mansoura University

2018 – 2019

- Premaster, Faculty of Computer and Information Science, Computer Science department.

### Mansoura University

2014 – 2018

- B.Sc., Faculty of Computer and Information Science, Computer Science department.
  - **Projects:**
    - AI agent to solve Knights Tour Using IDS Algorithm.
    - Image Processing: Segmentation Using Otsu Threshold Method.
    - Design Programming Language using GOLD Builder System.
    - Simple Video Sharing Website using PHP.
    - NLP tool: text prediction and spelling correction.

## SELECTED PROJECTS

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**DeepForecasting:** An open source decision support system used to predict the future company's stock price considering its stock historical data and news effect. To assist the nonfinancial expert users, we create a composite index for each company based on the best result from three different types of neural networks and the result obtained from the sentiment analysis of company's related news.

- Tech stack: Python, Keras, PHP, CodeIgniter, Scikit-learn, Numpy, Pandas, Matplotlib, Textblob, Matplotlib, bs4, tld.

**Arabyia:** An open source Arabic NLP tool used to perform Transliteration, Sentence diacritization, Text Search, POS tagging, and Translation.

- Tech stack: Python, NLTK, Pyramorph, Tashkeela.

**pystocklib:** Python package for Stock Market analysis. (Historical Data, News analysis, Empirical Mode Decomposition, etc.)

- Tech stack: Python, Numpy, Pandas, Textblob, Matplotlib, bs4, tld.

**StockNN:** An open source stock prices prediction project using neural network models (Backpropagation, RNN LSTM, and RBF) implemented in keras with Tensorflow backend to predict the daily closing price.

- Tech stack: Python, Keras, Scikit-learn, Numpy, Pandas, Matplotlib.

## QUALIFICATIONS

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- **Programming:** Python, C++, C#.
- **Databases:** MySQL, SQL Server.
- **Web Development:** PHP, CodeIgniter, Bootstrap, Javascript, jQuery, HTML/CSS.
- **Problem solving:** Solved 200+ algorithmic & mathematical problems on multiple online judges.

## ACTIVITIES

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- Public Relations Volunteer at ACM Mansoura SC. (2016-2017).
- Participated in SnackDown 2017 CodeChef - May 2017
- Participated in A2OJ Code battle Wuzzuf - Aug 2017
- Participated in IbTIECar 2018 TIEC - Aug 2018
- Trainee at PST {Problem solving program for beginners}. (2017)
- Summer Internship at ITI Mansoura {Open Source Development} (Jul 2017 – Sep 2017)
- Contributed to Falcon & naftawayh.