

## EMPLOYMENT

---

<b>Backend Engineer, Intern</b>	<b>Arch17</b>	<b>Aug 2018 – Jan 2019</b>
---------------------------------	---------------	----------------------------

- Implemented a pop-up notification system to display the latest activity & updates.
- Extended, maintained a shopping cart system that enables users to purchases online.
- Developed an advanced search engine that helps users explore new furniture.
- Enhanced, maintained the business center system that enables users/stores to add & edit their products.
- Implemented various custom modules to handle Referrer-Redirection, Media Uploading, and Image editing.
- Implemented a blogging system that helps designers explore & Showcase their projects.
- Tech stack: PHP, MySQL, CodeIgniter, Git, Linux.

## EDUCATION

---

<b>Mansoura, Egypt</b>	<b>University of Mansoura</b>	<b>2014 – 2018</b>
------------------------	-------------------------------	--------------------

- 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**.

## TECHNICAL EXPERIENCE

---

### Selected Projects

**DeepForecasting:** Stock Market Decision Support System using Deep Learning & Sentiment Analysis.

**Tech stack:** Python; Keras; PHP; Scikit-learn; Numpy; Pandas; Matplotlib; Textblob.

**Arabycia:** Arabic NLP tool used to perform Text Search, POS tagging, Translation, and diacritization.

**Tech stack:** Python; NLTK; Pyamorph; Tashkeela.

**Pystocklib:** Python package to Fetch & Analyze Stock Market data.

**Tech stack:** Python; Numpy; Pandas; Textblob; Matplotlib.

**StockNN:** Stock Market Prediction Using Neural Network Models.

**Tech stack:** Python; Numpy; Pandas; Keras.

**INetSC** A tool used to Scan & Crawl Website.

**Tech stack:** Python; Pythonwhois; nmap; BS4; tld.

## ADDITIONAL EXPERIENCE AND AWARDS

- 
- **IbTIECar Innovative Projects:** Shortlisted & Qualified to the Final Round of IBTIECAR2018 competition for the AI and Federated Machine Learning Track. (2019)
  - **Problem solving:** Solved 200+ algorithmic & mathematical problems on multiple **online judges**.
  - Public Relations **Volunteer** at ACM Mansoura SC. (2016-2017).
  - Participated in **Problem solving competitions** SnackDown (2017) & A2OJ Code battle (2017).
  - 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. (Open Source Projects)

---

### Languages and Technologies

- PHP; Python; C++; C#.NET; Django; Ruby.
- CSS; JavaScript; JQuery; Bootstrap; AJAX; JSON.
- Microsoft SQL Server; Anaconda; XXAMP; phpmyadmin; MySQL Workbench; Keras; Linux; Git.