

# BELAL SKAIK

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## EDUCATION

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### Bachelor of Science, Computer Science

August 2022 - May 2024

California State University, Fullerton

**Coursework:** Big Data, Backend Development, Artificial Intelligence, Cloud Computing, Operating Systems

## TECHNICAL SKILLS

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- **Languages:** Python3, C, C++, Bash, R, JavaScript
- **Web Development:** HTML, CSS, Bootstrap, JavaScript, NodeJS, MySQL, PHP, Django, Flask, FastAPI, Express
- **Technologies and Tools:** Git, Linux, Virtual Machines, MongoDB, JWT, YOLO

## PROJECTS

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### Product Management API | JavaScript, Express, Node.js, MongoDB

- Collaborated in a team of 5 to develop a secure, role-based backend API with JWT authentication
- Enabled distinct role functionalities for 'customer' and 'retailer', optimizing product listings and management
- Leveraged MongoDB for scalable, efficient data handling, significantly boosting system performance

### CandleVision | Software Developer | Python, FastAPI, YOLO, CSS, HTML, JavaScript

- Trained a computer vision enabled AI model on various candlesticks patterns
- Integrated the YOLO model into a FastAPI app with a web interface to detect candlesticks patterns and send real-time SMS alerts via Twilio API
- Deployed globally on Render for reliable and scalable access
- Presented the project for Edison STEM-NET Student Research

### Magic Survey | Database Developer | PHP, MySQL, HTML, CSS, Bootstrap

- Architected a MySQL-driven survey platform, enabling sophisticated data collection and management for robust analytical insights
- Developed PHP backend processes and SQL queries, supporting dynamic data interaction and efficient analysis within a user-friendly interface

## EXPERIENCE

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### STOCKITUPCS, Los Angeles | Trading Strategies Developer

August 2023 - December 2023

- Constructed algorithmic trading models to improve platform's market trend analysis capabilities
- Facilitated the integration of algorithmic solutions into the company's tech stack, enhancing data processing using Django ORM

### ASSURE-US, FULLERTON | Research Assistant

May 2023 - July 2023

- Implemented trading strategies by analyzing historical stock data with Python and Pandas, focusing on statistical arbitrage and pairs trading
- Conducted time-series analysis with statsmodels for strategy validation and optimization
- Conducted statistical tests including ADF to validate the stationarity of stock returns, crucial for pairs trading assumptions
- Generated trading signals by using moving average on historical data via Python's yfinance package

## AFFILIATIONS AND CERTIFICATIONS

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### AWS APAC Solutions Architecture virtual experience program on Forage

- Designed a simple and scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response time
- Described my proposed architecture in plain language ensuring my client understood how it works and how costs will be calculated for it

### CodePath | Intro to web development

- **Completed Codepath's WEB101 course:** Participated in an introductory course on web development, covering HTML, CSS, JavaScript, Flexbox, layouts, Async/Await, animation, and web design principles