

# BELAL SKAIK

951-463-0878 | belalaskaik@gmail.com | Anaheim, CA  
www.linkedin.com/in/Belal-skaik | github.com/belalaskaik | www.belalaskaik.com

## 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, TypeScript
- **Web Development:** HTML, CSS, Bootstrap, JavaScript, NodeJS, MySQL, PHP, Django, Flask, FastAPI, Express, React, Next JS
- **Technologies and Tools:** Git, Linux, Virtual Machines, MongoDB, JWT, YOLO, Firebase, Postman

## EXPERIENCE

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### Develop for Good, remote | Software Engineer

October 2024 – Present

- Currently collaborating with a nonprofit to develop an app for Trap-Neuter-Return (TNR) using React Native and a BaaS platform to help manage unowned cat population in Sonoma County

### Headstarrer AI, remote | Software Engineer Fellow

July 2024 – September 2024

- Developed 5 full-stack apps as part of hands-on learning, using OpenAI API, Firebase, React, Next.js, and managed DNS with Cloudflare
- Participated in semi-weekly hackathons to solve real-world technical challenges alongside cross-functional teams
- Collaborated with a startup to integrate new datasets into their backend infrastructure

### 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

## PROJECTS

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### AI-Flashcards-Stripe | Full-Stack Developer | JavaScript, NextJS, Node.js, Firebase, Clerk, Openai API

- Engineered a SaaS web application with a team of 4, integrating the OpenAI API for automated flashcard generation and secure payment processing with Stripe API
- Managed user data using Firebase Firestore, ensuring efficient data storage and retrieval
- Applied Material-UI React components to enhance front-end aesthetics and usability

### 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

## AFFILIATIONS AND CERTIFICATIONS

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- **Certifications:** AWS APAC Virtual Experience | CodePath Intro to Web Development