

Chaoran Huang

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TECHNICAL SKILLS

Languages : JAVA, Python, C/C++, SQL (MySQL), JavaScript, TypeScript, Assembly
Frameworks :Spring Boot, Flask, Django, Pytorch, Tensorflow, SpaCy, Crypto++, jQuery, React, Angular, Node.js, ExpressJS, Bootstrap
DevOps and API Tools : Git, Docker, Kubernetes, Jenkins, Postman
Cloud and Security Tools : **Amazon Web Services (AWS)** , **Google Cloud Platform (GCP)** , SQL Server, Linux (Configuring and Managing)

EDUCATION

Brown University	MS in Computer Science, GPA: 3.8	Sept 2022 - May 2024
University of California, Irvine	BS in Computer Science, Major GPA: 3.9	Sept 2017 - June 2021

EXPERIENCE

Software Developer <i>My Car Auction, Inc, Irvine, CA</i>	<i>March 2021 - July 2022</i>
<ul style="list-style-type: none">Contributed to the development of an automated car inspection application and management system, including web app and software development and micro-service integration to enhance business operations.Project 1: Competitor Price Scraping System<ul style="list-style-type: none">Designed and developed a web scraping system using Selenium and Puppeteer/Pyppeteer to fetch competitor pricing dataLeveraged Axios/Express, AWS DynamoDB, and Vaadin framework for data processing and presentationAutomated the system with ngrok and researched anti-scraping techniques for efficiencySuccessfully scaled the system to scrape over 30000 competitors’ auction vehicle prices daily across the entire U.S., providing comprehensive market insights.Project 2: Oracle NetSuite Enterprise Resource Planning (ERP) and Customer Relationship Management (CRM) System<ul style="list-style-type: none">Developed and integrated NetSuite CRM and ERP system software with iTextPDF, DocuSign, PandaDoc, and Auto-lead Data Format (ADF) using Java Spring Boot, OAuth2.0, and Retrofit2Coordinated and customized company’s Financial & Accounting team’s requirements in collaboration with Oracle NetSuite consultants, greatly boosted working efficiencyProject 3: Named Entity Recognizer for Used Vehicles (Github)<ul style="list-style-type: none">Designed Natural Language Processing model with SpaCy to recognize important attributes from customers’ descriptions and facilitate search engine algorithm to retrieve regulated vehicle informationCompleted a workflow from inital data collection & cleaning, model training & deployment and software integration.Dived into different models: CNN, LSTM and transformers: BERT , analyzed their performance based on their strength and weakness.Enabled offshore team to rapidly receive valuable and pertinent information, greatly improved the auto-lead number by 70% per day.Project 4: Sales Visualization Dashboard Web App<ul style="list-style-type: none">Developed an interactive dashboard using Flask, Angular, and ECharts for visualizing sales data, enabling better marketing decisions and automating commission calculations for employee payrollIntegrated micro-services for offshore teams and the Finance Department to track sales processes and vehicle auction stages	

PROJECTS

Full-Stack Developer, Co-founder <i>Shuxiang Fayun Technology Co., Ltd., Shanghai, China</i>	<i>August 2023 –Present</i>
<ul style="list-style-type: none">Spearheading the development and integration of an all-in-one business management webapp and a QA-focused large language model (LLM) for legal professionals. Played a pivotal role in designing the system architecture and workflow, ensuring efficient and seamless operation.Project: Integrated Issue Management Webapp and Language Model for Legal Practice<ul style="list-style-type: none">Orchestrated the system design, defining the architecture and workflow logic to optimize communication and case management in legal practices.Built the webapp using full-stack technologies, focusing on React, Next.js, and Tailwind for the frontend, and Spring Boot with AWS DynamoDB, ElasticBeanstalk, EC2 for the backend.Developed the LLM with PyTorch and Transformers to aid lawyers in legal case understanding and document preparation.Integrated advanced third-party components like Tiptap for rich text editing and Spring Boot Retrofit2, Spring Security for enhanced functionality.Achievements:<ul style="list-style-type: none">The bespoke system design significantly streamlined communication and workflow within law firms.The project was widely adopted by multiple law agencies and solo practitioners, generating considerable revenue. (> 1 million)	
Ads Exchange Simulation Analyst <i>Brown University</i>	<i>Jan 2023 - May 2023</i>
<ul style="list-style-type: none">Excelled in a rigorous Ads Exchange Game project, securing a top-3 finish among competitors through auction strategy and advanced predictive analytics.Conducted an in-depth analysis of diverse auction models including First/Second Price Auction and the VCG Mechanism , applying these insights to significantly enhance bidding strategies for increased profitability.Implemented cutting-edge machine learning techniques by developing a Boltzmann Machine combined with Q-learning . Integrated these with a Viterbi algorithm-powered Hidden Markov Model to refine prediction accuracy and system efficiency in real-time bidding environments.	
Athletes’ Chest X-Ray Abnormalities Detection <i>Tongji University, Professor Youlin Yu, Shanghai, China</i>	<i>August 2020 - March 2021</i>
<i>Sponsored by Scientific Research Program of Shanghai Science and Technology Commission</i> <ul style="list-style-type: none">Developed CA detection and diagnosis systems to help radiologists. Paper Details: GithubChose YOLOv5 and faster RCNN as models; applied data processing and augmentation.Analyzed and visualized final results, such as precision and recalls by using heap maps.	
Data & Web App Development <i>University of California, Irvine</i>	<i>March 2020 - June 2020</i>
<ul style="list-style-type: none">Developed a movie search website using Java and JavaScript , managing the backend database with MySQL , and deploying the project via Amazon AWS for an average load time under 300ms in pressure text.Enhanced website functionality by implementing full-text search, auto-complete, stored procedures, and various performance-tuning techniques.Strengthened website security with ReCAPTCHA and encrypted passwords, while expanding versatility by creating an accompanying Android mobile app with Google firebase .	
Web Crawler & Search Engine <i>University of California, Irvine</i>	<i>March 2020 - June 2020</i>
<ul style="list-style-type: none">Developed a Python-based web crawler to navigate all web pages under ics.uci.edu, utilizing packages such as Requests, Re, and BeautifulSoup.Created a web-based UI search engine via techniques: like TF-IDF , for querying user-entered text in local databases, leveraging cosine similarity to measure the relationship between input text and crawled web pages.Achieved a response time of 100ms for search queries, enabling fast and efficient user interactions.Presented a comprehensive report detailing the accurate number of pages within the specified domain and successfully avoiding crawler traps.	