Chaofan (Jaden) Deng

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Education

- **Santa Clara University** — Santa Clara, California, USA
  Master of Science - Information Systems — *September 2023 - May 2025*

- **Civil Aviation Flight University of China** — Sichuan, China
  Bachelor of Engineering - Electrical and Safety Engineering — *September 2019 - June 2023*

Skills Summary

- **Languages**: Python, JAVA, SQL, JavaScript, HTML, CSS
- **Technologies**: React, Node.js, json, Power FX, Pytorch, Django, Kubernetes, MongoDB, Git, Mysql, SQLite3, Jupyter, Pandas, Scikit-Learn, Numpy, TypeScript, NoSQL, Linux, Microsoft Azure, Microsoft Bot Framework, Microsoft copilot studio, Microsoft power Platform
- **Core Courses**: Web Programming, Machine Learning, Deep Learning, Aritficial Intelligence, NLP, SQL, Applied Cloud Computing, Object-Oriented Software Design Analysis & Programming, Big Data Modeling and Analytics, Data Structures and Algorithms, Database Management & Systems Design

Experience

- **Teladoc Health** — San Jose, California
  Generative AI Developer Intern — *Feb 2024 - Aug 2024*
  - **Copilot Studio Chatbot Development**: Developed an internal chatbot using Microsoft Copilot Studio, integrated with Microsoft Power Platform, Azure, and Workday. Enhanced the chatbot with AI-driven functionalities, such as SharePoint knowledge spaces, meeting notes transcription and summaries, Workday task automation, and workflow optimizations. Connected and deployed ChatGPT API for advanced language capabilities, implemented NLP to recognize and optimize user inputs, further enhancing interaction efficiency. Deployed on Microsoft Teams to facilitate internal communications and process efficiencies, with additional improvements made to the UI/UX to enhance user engagement.
  - **Azure AI and Bot Framework Development**: Developed a company-specific large language model using Azure AI Studio, tailored to meet unique organizational needs. This model was deployed using the Azure Bot Framework, integrated to chatbot with advanced natural language processing capabilities into company workflows and enhancing automated communication systems.
  - **Microsoft Power Automate Workflow Automation**: Created a suite of automated workflows using Microsoft Power Automate, utilizing APIs and connectors. Developed tasks like AI-enhanced email and message automation, intelligent file recognition, complex calendar scheduling, and Excel automation tasks. These efforts improved process efficiency and reduced response times within the organization.
- **Hopson Development Holdings Limited** — Guangzhou, China
  Software Engineer Intern — *Jun 2021 - Sep 2021*
  - **Front-End Development**: Developed and refined front-end architecture for the company's primary real estate platform using React, ensuring a responsive and intuitive user experience that adapts to various devices and screen sizes.
  - **UI/UX Enhancement**: Conducted comprehensive user experience research and implemented UI improvements, leading to a 25% increase in customer engagement metrics.
  - **RESTful API Development**: Design and consume RESTful APIs, enhancing the communication between client-side and server-side applications.
  - **Performance Tuning**: Employed modern JavaScript performance optimization techniques, achieving a 35% reduction in page load times and smoother interactions.
  - **Data Visualization for Real Estate Analytics**: Implemented advanced data visualization features using JavaScript libraries like D3.js to present real estate market trends and analytics. This initiative helped provide clearer insights to clients and improved decision-making tools on the platform.

Projects

- **Financial Data Analytics and Prediction Platform** — October 2023
  Keywords: Machine Learning, Data Visualization, Predictive Modeling, Scikit-learn
  - **Data Manipulation and Analysis**: Applied Pandas and NumPy in Python for comprehensive data cleaning, transformation, and aggregation on extensive financial datasets from 2014 to 2018, encompassing over 3800 companies annually.
  - **Visualization and Pattern Recognition**: Leveraged Matplotlib and Seaborn for advanced data visualization, identifying underlying trends, anomalies, and patterns within key financial indicators.
  - **Data Preprocessing**: Implemented systematic data cleaning methods, including addressing missing values, detecting and removing outliers, and feature scaling for optimal machine learning model performance.
  - **Predictive Modeling**: Currently developing machine learning models using Scikit-learn to forecast future stock price changes based on historical financial indicators, aiming to achieve accurate predictions and uncover potential investment insights.