

方瑞 Ray Fang

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求职意向: 寻求 2024 年春季机器学习、人工智能或软件开发等全职岗位。

教育背景

伊利诺伊大学厄巴纳-香槟分校 计算机硕士在读 **2022/9 – 2023/12**
U.S.News 全美计算机学院排名第五, CS Ranking 排名第二 *3.85/4.0 GPA*
主修课程: 人工智能, 机器学习, 深度学习, 数据挖掘, 自然语言处理, 物联网 IoT, 人机交互, 音频信号处理等

罗斯-霍曼理工学院 计算机专业本科 **2018/9 – 2022/5**
U.S.News 本科工程类学院连续 24 年排名第一 *3.92/4.0 专业 GPA*
主修课程: 软件设计/开发, 网页/安卓 APP 开发, 数据库, 计算机体系结构, 游戏开发, 计算机视觉

专业技能

编程语言: C, C++, C#, Java, Kotlin, MIPS, MS SQL, Python
Web 语言: CSS, Docker, Express, Firebase, JavaScript, MongoDB, Nodejs, React, TypeScript
操作系统: Linux (Ubuntu), Windows
相关工具: Git, Jupyter Notebook, Pandas, PyTorch, Scikit-Learn, Unity3D, Unreal 5, Visual Studio Code
语言: 中文, 英语 (流利), 日语 (可会话), 西班牙语 (入门)

专业经验

英特尔, 客户端计算事业部 软件开发实习: Flicker Hunter (Python, C++, Arduino) 2021/3 – 2021/7

- 根据事业部工程师需求建立了一套独立的系统, 自动检测并记录电脑闪屏的问题。
- 在主机、Arduino 和示波器之间实现低延迟的串行数据传输, 保证在 60Hz 刷新率下的电脑闪屏问题能被 Arduino 的探测器捕获, 同时从示波器获取信号截图, 在故障机上保存日志, 使用外接摄像头录制并保存整个过程。
- 项目在 2022 年英特尔设计与测试技术大会中获奖。

罗斯-霍曼理工学院 软件开发入门 助教 (Python, Tkinter) 2021/9 – 2022/5

- 帮助入门 Python 的同学答疑解惑, 进行一对一/一对多辅导并提供学习建议; 为有英语交流问题导致学习困难的同学提供每周数次的额外辅导。

创业公司项目: My Chatty (Python, GPT, Generative AI, Web) 2023

- 旨在创建一个手机应用程序, 使 Generative AI 模型成为用户的多功能实时写作助手。
- 在 Node.js 后端中调用现有的 GPT API。设计了提示工程的内容并调整了参数, 实现了改写、续写、回复等多种写作功能。

项目经验

伊利诺伊大学厄巴纳-香槟分校 数据挖掘项目: 挖掘相似用户网络 (Python, 自然语言处理, Sk-learn, Pandas)

- 使用推特的官方 API v2, 抓取某一用户的推文和回复, 并在与其互动的用户上重复这一步骤, 生成包含 500 名用户与 5 万条推特内容的数据。
- 对数据进行预处理与深入分析后, 设计一系列算法以找到与起始用户有相似观点的用户: 使用情感分析与话题分析方法判断两名用户是否有共同话题, 以此生成一个相似用户的网络。

罗斯-霍曼理工学院 毕业项目: 人气投票网站 Power Ranking Poll (React, TypeScript, MERN 技术栈, Docker)

- 带领四人团队与当地体育联盟的客户合作, 根据他们的需求设计并开发了一个网站, 用于对体育联盟中的球队进行人气投票与排名。
- 使用 React 搭建前端, Express + Node.js 搭建后端, MongoDB 作为 NoSQL 数据库, 并以分布式方式部署到 Docker。

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EDUCATION

Master of Computer Science

University of Illinois at Urbana-Champaign, Champaign, IL

September 2022 – December 2023

3.85/4.0 GPA

- Artificial Intelligence
- Audio Signal Processing
- Data Mining
- Deep Learning
- Human-Computer Interaction
- Internet of Things

Bachelor of Science in Computer Science

Rose-Hulman Institute of Technology, Terre Haute, IN

May 2022

3.92/4.0 Major GPA

- #1 Engineering College in U.S. News

- Software Design & Engineering
- Data Structure & Algorithm Analysis
- Web & Android App Development
- Machine Learning

SKILLS

Programming Languages: C, C++, C#, Java, Kotlin, MIPS, MS SQL, Python

Web: CSS, Docker, Express, Firebase, JavaScript, MongoDB, Nodejs, React, TypeScript

Operating Systems: Linux (Ubuntu), Windows

Tools: Git, Jupyter Notebook, Pandas, Scikit-Learn, Unity3D, Unreal 5, Visual Studio Code

EXPERIENCE

Intel Corporation, Client Computing Group (CCG)

Spring – Summer 2021

Software Development Intern: *Flicker Hunter* (Python, C++, Arduino, Serial Connection)

- Built a stand-alone system from scratch for detecting and recording screen flickering.
- Reduced the department engineers' effort to debug screen flicker problems by 90%.
- Implemented low latency serial data transfer between PC, Arduino, and oscilloscope.
- Project was selected and awarded by Intel Design and Test Technology Conference 2022.

Start-up Project: *MyChatty* (Python, GPT, Generative AI, Web)

Summer 2023

- Aiming to create a mobile application that edits users' writings in real-time using Generative AI.
- Wrote backend for sending edit requests to GPT API with engineered prompts and tuned parameters. Implemented multiple features including rewriting, continuation, and replying.

Rose-Hulman Institute of Technology, Terre Haute, IN

Winter 2021

In-class Assistant for CSSE120 Introduction to Software Development (Python, Tkinter)

- Worked as a student assistant to help CSSE120 students, both remotely and physically, by answering their questions related to Python and providing programming advices.
- Provided weekly one-on-one assistance to students who struggle with English proficiency and help them on the academic learning challenges.

PROJECTS

University of Illinois Urbana-Champaign, Champaign, IL

Data Mining Group Project: *Similar Twitter User Mining* (NLP, Sk-learn, Pandas, Sentiment)

- Scraped Twitter users' tweets and conversations using official API. Pre-processed and performed in-depth analysis on 50k rows of Tweet data.
- Designed algorithms to generate graph of Twitter users with similarities through a combination of machine learning, sentiment analysis, topic modeling and other methods.

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Capstone Project: *Power Ranking Poll* (MERN, Docker, Azure, JavaScript, Ant Design, MUI)

- Provided a React web application for sport league enthusiasts to create power ranking polls on a league and vote for the teams.
- Led a team of four to liaise with two clients in a local e-sport league and customized the application in accordance with their needs.
- Implemented the full-stack application with the MERN architecture and deployed to Docker in a distributed manner.

HONORS & ACTIVITIES

- Awarded with Dean's List in 9 Quarters out of 10 at Rose-Hulman.