曲硕
软件开发工程师

北京

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WORK EXPERIENCE

华为/2012 实验室 **北京**
软件开发工程师-*Rust* 做 *IDE* 开发 Oct 2022 – Present
- 基于 tokio，负责前后端通信 rpc 框架，开发 Rust 宏方便开发，支持前后端分离的架构以及 IDE 远程开发功能
- 负责 IoC 框架开发，能够在构建时注入不同 module，以及采用 Service-Provider 模式，能够方便构建出前后端分离版本，和 native 版本
- 负责 Rust 和 Arkts 跨语言调用框架开发，提供了类似 wasm-bindgen 的宏，支持 Rust 调用 Arkts 的函数及对象
- 基于 Druid 前端框架，参与 Component 框架的开发

National Aeronautics and Space Administration - Jet Propulsion Laboratory **Pasadena, California**
Senior Developer Feb 2016 – May 2019
- This being the theory I hold, why need I be afraid of not being able to reconcile it with the case of my ancestors?
- Spearheaded the development of a mission-critical software module, resulting in a 30% improvement in data processing efficiency for the Mars Rover project.
- Led a cross-functional team in implementing agile methodologies, reducing project timelines by 20% and ensuring timely delivery of software updates for multiple space exploration missions.

EDUCATION

Open University **City of London, United Kingdom**
Bachelor of Science in Computer Science Aug 2017 – Jun 2021
- **Honors**: 4.0 / 4.0 GPA, President's List, Dean's List
- **Courses**: Algorithms & Data Structures, Applications in Quantitative Finance, Engineering Data Analysis, Compiler Architecture
- **Thesis**: A convolutional neural network for predicting Greenland glacier melt and glacial water flow
- **Activities**: Debating, Chess, Cricket

LEADERSHIP AND ACTIVITIES

White Hat Hackers Association **Cambridge, United Kingdom**
Vice President for Internal Affairs May 2020 – May 2021
- But I must explain to you how all this mistaken idea of reprobating pleasure and extolling pain arose.
- But who has any right to find fault with a man who chooses to enjoy a pleasure that has no annoying consequences, or one who avoids a pain that produces no resultant pleasure?
- Can you then suppose that those heroic men performed their famous deeds without any motive at all?

London Bridge Toastmasters Club **City of London, United Kingdom**
Member Jun 2022 – Jun 2023
- Won Champion in the Division A District X Speech Evaluation Contest of Toastmasters International
- Promising Toastmaster of the Year (PY 2022-2023)
- Tell me, pray, what explanation do you put upon their actions?

PROJECTS

Job Tailor
Open University Nov 2020 – Apr 2021
- Developed an AI-powered résumé editor app to create tailored résumés from users' CVs based on specific job descriptions.
- Acquired more than 100,000 user sign ups in 3 months and more than 10,000 active monthly users.
- Generated profit of upwards $20,000 yearly with a team of only four developers and three business operatives

HONORS AND AWARDS

Champion in the Division A District X Speech Evaluation Contest **City of London, United Kingdom**
Issued by *Toastmasters International* May 2023

Finalist in the 2020 SCG Bangkok Business Challenge Global Competition **Bangkok, Thailand**
Issued by *Sasin School of Management* Jul 2020

- Made it to the Top 5 (selected from over 100 teams) in the world for the semi-finals of the SCG Bangkok Business Challenge @ Sasin 2020 Global Competition held at Bangkok, Thailand from July 7-12, 2020.
- Served as the speaker and presented in the 60-second pitch round of the Opening Reception of the SCG Bangkok Business Challenge @ Sasin 2022 for Team London Bridge.

LICENSES AND CERTIFICATIONS

Learning How to Learn: Powerful mental tools to help you master tough subjects   ID: 1MPR3CVR3SUM3
Issued by *Coursera*   Sep 2021

RESEARCH AND PUBLICATIONS

A convolutional neural network for predicting Greenland glacier melt and glacial water flow
Published on *Theoretical and Computational Fluid Dynamics*   Sep 2020

SKILLS, LANGUAGES, INTERESTS

- **Languages**: English (Native speaker), German (Native speaker), Japanese (Basic proficiency)
- **Soft Skills**: Public Speaking, Debating, Communication, Critical Thinking, Leadership, Persuasive Writing, Technical Writing
- **Programming**: Python, SQL, PostgreSQL, MATLAB/Octave, HTML, CSS, Javascript, Typst, LaTeX
- **Tools**: Microsoft Word, Git, Docker, Visual Studio Code, Canva
- **Web Development**: React, Next.js, million.js, Svelte & Sveltekit, Tailwind CSS, Node.js, Deno, FastAPI, Flask
- **BI & Data Analytics**: Microsoft Excel, Microsoft Power BI, Jupyter Notebook, Numpy, Pandas, Plotly, Altair
- **Interests**: Video Games, Anime, Reading Non-fiction, Classical and Original Soundtrack Music

REFERENCES

- **Dr. Jane Austin**: "John was a great student. He was always eager to learn new things and was very passionate about his studies. As his mentor, I am proud to say that he was also a great leader and was able to lead his team to victory in the 2020 SCG Bangkok Business Challenge Global Competition."