

KAIYUE PENG

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Durham graduate with web2 and web3 experience acquired from a work placement in STFC, and a dissertation developing a secure Dapp for academic data review. Capable of learning fast and independently; self-taught frontend development from beginner to a successful job application in three months. Committed to Web3 and Blockchain technologies, and self-motivated to learn about the most recent advances in the field. Looking for an internship or a graduate role that allows me to explore and implement Blockchain technologies in the industry.

Education

BSc Computer Science with Placement | Durham University 2024

- Bachelor with Second Class Honors Graduate from Global Top 100 University
- Dissertation in A Decentralised Application For Safeguarding Research Data Integrity:
 - Wrote Solidity smart contracts and deployed them to the local Hardhat blockchain
 - Used MetaMask and its React API for contract calls including wallet authentication and transactions
 - Stored encrypted data in decentralized storage like Tableland, IPFS, and Filecoin
 - Built accessible SPA with React MUI in TypeScript
- Led an Agile team of 5 junior students for an ML project for Coltraco Ultrasonics in Project Management coursework
- Completed the frontend and the virtual assistant feature of an Android AR project for a client from IBM in a 6-people Agile team for Year 2 Software Engineering coursework
- 'Special Mention' as a team in Bath Wackathon 2022 with a Bootstrap project

Experience

ISIS Neutron and Muon Source | Oxfordshire, UK

Controls Web Interface Placement Student | 07/2022 to 06/2023

- Improved fault tolerance of initially dysfunctional web apps significantly so accelerator physicists and technicians now use them in daily machine operations
- Worked in an Agile team, regularly delivered products, and collected user feedback
- Worked with MQTT and web socket for container communications
- Used InfluxDB, CouchDB, and MongoDB for data access and manipulation
- Implemented LDAP authentication and authorization
- Surveyed users in person frequently to improve frontend accessibility and UX
- Automated GitLab CI/CD pipeline to containerize and deploy apps with Docker

- Wrote unit tests using Jest and RTL and debugged Express servers using RESTful API, achieved test coverage of 100%
- Demonstrated proficiency in understanding project architecture and rapidly learning new development tools, earning appreciation from senior developers

SKILLS

- An effective communicator and a positive team player who worked with colleagues and users with different technical and cultural backgrounds
- A fast, independent learner who self-taught full-stack web development in two weeks
- Capable of writing technical documents clearly and succinctly with experience in writing personal learning logs, tutorials, and documentation
- Efficient Agile practitioner who participated in and led successful Agile projects
- **Web3:** Solidity, IPFS, MetaMask, Tableland, Hardhat, and ethers.js
- **Frontend development:** HTML&CSS, JavaScript, TypeScript, React, and MUI packages
- **Backend development:** NodeJS, Express, RESTful API, and TypeScript
- **Centralized databases:** MongoDB, InfluxDB, MySQL, and CouchDB
- **Web app testing:** Jest and React Test Library
- **Deployment:** Docker and GitLab CI/CD
- **OOP:** Python, Java, C#

Certifications

Microsoft Technology Associate: Networking Fundamentals | Aug 2020 | 37522254

Microsoft Technology Associate: Database Fundamentals | Aug 2020 | 37522204

Microsoft Technology Associate: Introduction to Programming Using Python | 2020 | 37521919

Languages

Mandarin Chinese – native speaker

English – fluent and proficient