

Abdullah Khan

Software Engineer

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Education

Macquarie University

[B.Sc. in IT \(Data Science & Creative Writing\)](#)

Sydney, Australia, 2019-2021 **GPA: 3.75/4.00**

Technical skills

Languages: Typescript, Python, Java, Golang

Databases: **SQL:** MySQL, Postgres **NoSQL:** DynamoDB

Cloud: AWS

Professional Experience

Epoch Capital [Software Engineer](#)

Sydney, NSW Feb. 2023 - Present

Mid Frequency Trading (June 2024 - Present)

- Worked on introducing and implementing Prometheus monitoring framework to the wider codebase and applications for better visibility in evaluation of system states and metric-based alerting.
- Streamlined offline maintenance, reporting, and notification processes of trading infrastructure, reducing technical debt and modernizing legacy code, thereby improving developer and support efficiency.
- Strengthened infrastructure security by implementing robust authentication flows, HTTPS, and reverse proxying with NGINX.

Risk and Finance (Feb. 2023 - June. 2024)

- Maintainer and developer of Python and Golang realtime microservices for ETL pipelines, trade validation processes and automations.
- Played a pivotal role in projects centered on event streaming architectures, leveraging in-house message brokering and sequencing frameworks using Java and Python.
- Developed and deployed software solutions for monitoring and reconciling notional limits across diverse products and portfolios.
- Provided L2 support for incident management, real-time reconciliation discrepancies, and overall system health maintenance.

Proxima Capital [Junior Software Engineer](#)

Sydney, NSW Jan. 2022 - Sep 2022

- Contributed to the Software Development life cycle by developing a DeFi/CeFi Assets Ledger, using web technologies.
- Engaged with clients to understand business use cases, gather technical requirements, and extract architectural significance for solution design.
- Created engaging user experience by delivering an aesthetically pleasing user interface built with HTML, CSS, Typescript, and React as a framework.

Ernst & Young [PACE \(Professional & Community Engagement\) Intern](#)

Sydney, NSW Aug. 2021 - Nov. 2021

- Acted as Lead Developer and participated in the technical effort by training, fine-tuning and maintaining the Maskforce Machine Learning model.
- Delivered technical presentations of the Maskforce software to EY mentors and partners, discussing new designs, features and development plans.
- Maintained a high engagement in meetings with the Data Analytics team, asking calibrated questions to reach alignment and optimize the delivery of each implementation.
- Shadowed Senior Engineers, seeking opportunities to contribute while observing their work to learn best practices.

Hearing Power [Data Intern](#)

Sydney, NSW Jan. 2021 - Jun. 2021

- Conceptualized, designed and implemented a mobile application using Python, Dash as a Framework for the back-end and React on the front-end, and leveraging libraries, including Plotly for Data Science. (continued)
- Optimized the web and app experience for a Hearing Power IP through modern technologies, such as the Framer-Motion library allowing for cutting-edge animations to feature a carousel card rotation displaying user reviews.
- Curated, manipulated and processed user data from the Tinnibot Mobile app, using Python with Pandas, Plotly, Seaborn and Dash.