

## OBJECTIVE

Results-driven Software Engineer with experienced in solving complex technical challenges, optimizing system performance, and building fault-tolerant distributed systems. Proven track record of analyzing large-scale infrastructure issues, implementing automated solutions, and improving operational efficiency while mastering cutting-edge technologies. Seeking to leverage analytical expertise, coding proficiency, and systems thinking to tackle the unique reliability challenges of Google Cloud's massive scale.

## SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, C++, Java
- **Web Technologies:** React.js, Node.js, Django, REST APIs, GraphQL, Java SpringBoot
- **Databases & Storage:** PostgreSQL, MongoDB, SQL, MySQL, Microsoft SQL Server
- **Cloud & DevOps:** Azure Cloud, AWS EC2, Jenkins, CI/CD, Kafka, Windows Server
- **Machine Learning:** PyTorch, TensorFlow, Scikit-learn, Transformers, BERT, GPT, Hugging Face, XGBoost, LightGBM, Computer Vision, NLP, Neural Networks, CNNs, RNNs, Transfer Learning, NumPy, Pandas, Data Analysis, Research Methodology, Statistical Analysis, Feature Engineering, Data Visualization, Matplotlib, Seaborn

## EXPERIENCE

- **SPOTFAKE.AI**  June 2024 - May 2025  
Chief Product Officer Adelaide, Australia
  - Designed and optimized end-to-end ML data pipelines for document fraud detection, improving model accuracy by 5% and reducing processing time by 10%
  - Developed production-ready machine learning models using PyTorch and TensorFlow, integrating computer vision algorithms for real-time document analysis
  - Led cross-functional analytics initiatives, translating business requirements into statistical models and delivering actionable insights to drive product strategy
- **THE UNIVERSITY OF ADELAIDE**  March 2023 - Dec 2024  
RESEARCH & TEACHING ASSISTANT - AI/ML Adelaide, Australia
  - Instructed and mentored 200+ students, improving their comprehension and performance in core concepts of Computer Science
  - Led and guided a team of tutors, ensuring consistent and accurate grading of assignments and examinations.
- **GoCrowd.io**  Jan 2022 - Dec 2022  
Full-Stack Developer Astana, Kazakhstan
  - Architected and deployed scalable distributed system infrastructure from initial concept to production, designing resilient microservices architecture supporting thousands of concurrent users
  - Led front-end engineering team of 2 developers, successfully delivering 5+ high-availability features with robust error handling and fault-tolerant design patterns
  - Integrated multiple API services and implemented circuit breaker patterns to improve system interoperability and prevent cascading failures, resulting in 40% reduction in service degradation incidents
  - Implemented comprehensive monitoring and testing protocols including automated health checks, performance benchmarking, and chaos engineering practices to ensure system reliability across distributed environments
  - Utilized modern infrastructure stack including TypeScript, REST APIs, GitLab CI/CD, Docker containerization, and AWS cloud services to deliver highly scalable and maintainable distributed systems
  - Collaborated in DevOps-focused agile environment, implementing infrastructure-as-code practices using GitLab pipelines and Docker/AWS for automated deployment and infrastructure management
- **INDUSTRIAL AND COMMERCIAL BANK OF CHINA**  Feb 2021 - Dec 2021  
SOFTWARE ENGINEER Almaty, Kazakhstan
  - Demonstrated expertise in Java, Spring Boot, and Python, contributing to robust software development and system optimisation.
  - Engineered an internal management system for a team of over 50 employees, streamlining operational efficiencies and communication.
  - Revolutionised the bank's daily reporting process, automating the workflow and achieving a 340 percent improvement in reporting accuracy and efficiency.

## EDUCATION

- **THE UNIVERSITY OF ADELAIDE** Sep 2022 - Dec 2024  
MASTER OF AI AND MACHINE LEARNING Adelaide, Australia
  - Grade: 5.99/7.00
- **Kazakh-British Technical University** Sep 2017 - May 2021  
BACHELOR OF ENGINEERING IN COMPUTER SOFTWARE ENGINEERING Almaty, Kazakhstan

# ACADEMIC RESEARCH PROJECTS

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- **MAMBA STOCK**  
*Australian Institute of Machine Learning*
    - This study introduces MAMBAStock, a novel approach based on the recently proposed Selective State Space (S6) model, MAMBA. MAMBAStock is designed to swiftly capture stock features and predict prices with competitive accuracy, under Dr. Jinan Zou from Australian Institute of Machine Learning.
  - **Debiasing Hospital Review**  
*Australian Institute of Machine Learning*
    - Initiated and currently leading a groundbreaking research project in collaboration with Dr. Weitong Chen, targeting the pervasive issue of gender bias within NLP algorithms. This ambitious endeavor, commenced in March 2023, is dedicated to identifying, analysing, and mitigating gender bias in NLP systems.

May 2024 - Oct 2024

Jan 2023 - Dec 2023

## REFERENCES

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<b>Alikhan Okas (Fellow student)</b> SWE-SRE for Google Search Google (Mountain View, USA) alikhhan.okas@gmail.com	<b>Adilkhan Kozhakhmetov (Teammate in previous project)</b> Software Engineer Meta (London, UK) adilkhan.kozhakhmetov@gmail.com
<b>Angus Williamson (Colleague)</b> CEO SPOTFAKE.AI angus.williamson@spotfake.ai	<b>Dr. Tim Chen (Supervised me during my role as a Teaching Assistant)</b> Senior Lecturer The University of Adelaide tim.chen@adelaide.edu.au