

# Bernard Cheng Zheng Zhuan

Email: [bernardchengzz@gmail.com](mailto:bernardchengzz@gmail.com) | LinkedIn: [Profile](#) | Website: [bernardcheng.github.io](http://bernardcheng.github.io)

## EDUCATION

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### National University of Singapore

- Master of Computing (Artificial Intelligence Specialization)
- Expected Graduation: Dec 2025

Singapore

Aug 2023 to Present

### Singapore University of Technology and Design

- Bachelor of Engineering (Engineering Systems and Design), Honours
- Focus Track: Business Analytics

Singapore

May 2016 to Sept 2019

## WORK EXPERIENCE

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### Bank of Singapore

#### Data Analyst (Compliance Transformation – AI & Data Analytics)

- Enabled senior management decision-making on client demographic risk, by developing analytics dashboards to highlight impact of high-risk clients across the various BOS entity offices and hubs.
- Overhauled legacy Excel-based BAU reports by designing Power BI dashboards to enable improved data visibility and accessibility of key client and transactional data for key compliance functions.
- Achieved 80+% time reduction of operational data validation checks by developing automation scripts in Python.

Singapore

Aug 2022 to Present

### NCS Pte. Ltd.

#### Data Engineer (Contract)

- Developed automation scripts for interface file identification data transfers across different government agencies using SQL, SAS BASE, bash scripting, and data pipeline tools (SAS Enterprise Guide and Data Integration Studio)
- Designed interactive diagnostic dashboards using SAS Visual Analytics for daily monitoring of critical ETL transfers across various government agencies.

Singapore

Feb 2022 to Jul 2022

### SAS Institute

#### Data Analyst (SAS Business Intelligence and Analytics training program)

- Attained SAS Certified Specialist certifications ([Base Programming Using SAS 9.4](#), [Predictive Modeler Using SAS Enterprise Miner 14](#), [Machine Learning Using SAS Viya 3.5](#)) as part of SAS BIA training program

Singapore

Oct 2021 to Feb 2022

### Synpulse Singapore Pte. Ltd.

#### Associate Consultant (Private Banking)

- Prototyped innovative and scalable financial products (Community cashback card, Flexible Loan scheme) for digital banking sales initiatives using Thought Machine smart contracts (Python).
- Supported an international bank in test management of its internal core banking platform roll-out in Singapore and Hong Kong. Achieved 80+% testcase success rate by employing efficient measures (JIRA Dashboarding, performance reporting automation using Python) to ensure clear and timely reporting standards.

Singapore

Oct 2019 to Aug 2021

### Television Content Analytics (TVCONal)

#### Data Scientist (Video Analytics)

- Co-authored IEEE computer vision research paper ([Paper ID: BigD568](#)) on applying transfer learning models to enable real-time player recognition & event detection in cricket broadcasting applications using Keras API
- Researched custom image processing techniques to improve custom hybrid model accuracy performance by 20%
- Developed company's contract log with auto-sync functionality between Google Sheets and Calendar using Google Apps Script (JavaScript) to fully automate existing time scheduling processes.

Singapore

May 2018 to Jan 2019

### OCBC Bank

#### Business Analyst Intern (Business Transformation)

- Identified and gathered user requirements (business logic, financial calculations, UX screen flow, UI design) from various business functions as part of OCBC Bank's \$20 million investment in its [Goal-based Advisory \(GBA\) financial planner](#) initiative to drive insurance and banking products sales on its online/internet banking platforms

Singapore

Apr 2017 to Sep 2017

## RESEARCH & PUBLICATIONS

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- Izadi, M., Chia, A., Cheng, B., & Wu, S. (2018, December). NetClips: A Framework for Video Analytics in Sports Broadcast. In 2018 IEEE International Conference on Big Data (Big Data) (pp. 1593-1597). IEEE.