Bacchus Beale

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SUMMARY

Professional, skilled Senior Software Engineer with a Master's in Data Science and several years industry experience. Strengths and passion in computer programming, problem solving, data analytics and mathematics

EDUCATION AND TRAINING

Masters of Data Science
Data Science, James Cook University, Townsville January 2021
Machine Learning, Python, R, SQL, Tableau, SAS, Hadoop

Bachelor of Computer Engineering
Computer Engineering, University of Sydney, Sydney December 2010
Java, C, Matlab, Electronics, Multimedia (Image processing/OpenGL)

Bachelor of Science
Science, University of Sydney, Sydney December 1992
Mathematics, Physics, Chemistry, Statistics, Biology

SKILLS

- Python, C# .Net, C/C++, SQL, Java
- HTML, CSS, JavaScript, NodeJS
- Databases, SQL Server, MySQL, MongoDB
- Data analytics, modeling and machine learning
- API/SDK creation and integration
- Software design, development, testing and deployment
- Project documentation

EXPERIENCE

Senior Software Engineer, Art of Logic, July 2020-Current
Belrose, NSW
Security system integration
- Created Python service on Nvidia Jetson for a license plate recognition and parking management system

- Built software integration solution with face recognition to alert employees at gambling venues when barred persons are spotted in the gaming area, using Python. MongoDB and SQL Server
- Developed Docker applications for Object Detection in Python using YOLOv4 Darknet and Tensorflow
- Made Object Detection and Thermal imaging client software, wrapped in Docker containers to run onboard CCTV IP cameras

Software Engineer, AFN Solutions, July 2019-July 2020
Belrose, NSW
Research and Development
- Helped development team complete software solution using License Plate Recognition using Python Flask and MongoDB
- Used machine learning to train YOLOv3 object detection for products on store shelves for proof of concept design
- Deployed Yolov3 object detector on Nvidia server for people detection and monitoring at Cairns Council lagoon for public safety and security

Health Support Worker, ESP Healthcare & Hire Up, April 2017-July 2019

Aged and Disability Care
- Social support, driving, personal care

Hospitality, Chefs on the Run & Belrose Hotel, June 2010-April 2017

Software Developer, AFN Security/AFN Solutions, April 2010-April 2015
Belrose, NSW
Software, Hardware, Databases and Networks
- Created Java application for Blackberry phones
- Worked with IT manager to build a job and customer tracking system using C# .Net and MS SQL Server
- Collaborated with IP camera developers to write firmware in C/C++ to implement ONVIF device protocol
- Managed Windows servers including Active Directory, Exchange email, users Home accounts, and storage server
- Later physical Dell servers were migrated to VMWare ESX and we used Citrix
- Managed server rack with switches and several VLANs
- Prepared and tested IP cameras, servers and network components

Customer Service/Store Assistant, Coles Supermarkets, 1997-2010

Customer Service/Hospitality, Various Roles, 1986-1997