Xiaoyu Sun

Master of IT graduate with a penchant for learning, in-depth knowledge of software development and database system, hands-on experience in Python and Java programming. I am looking for new opportunities in the IT field where I can apply and develop both my soft skills and technical skills.

Melbourne, Australia
(+61) 432640414
sun.xiaoyu@foxmail.com

LINKEDIN   **GITHUB**

EXPERIENCE

OMC International, Melbourne — *Software Engineer Intern*

JAN 2019 - JUL 2019

- Developed new software features of the web application with C#, ASP.NET MVC Framework screens in Visual Studio 2017
- Involved in testing, debugging and maintenance of the application
- Worked on creating rich user controls using JavaScript, HTML, AJAX
- Developed unit tests and functional testing to test new functions, if new functionalities work as required we will move to Regression testing to make sure that no direct functionality is impacted by the new changes
- Developed and executed automated test cases (TestComplete) & updated test case status to the test manager on a daily basis.
- Actively involved in all stages of the Software Development Life Cycle
- Worked with multiple repositories and management software (e.g. JIRA, Confluence, Mercurial version control tool)

OMC International, Melbourne — *Research Intern*

JUL 2018 - DEC 2018

- Built functions using Python, Numpy and pandas library to process and analyse data sets from CSV, Excel or JSON files to calculate the draft limit of vessels and classify data into different categories(based on ports), and visualise the results by using Plot.ly library to generate 3D Ribbon Plots and Surface Plots
- Performed in-depth analysis of research information to identify dangerous drafts and develop reliable transportation recommendations for customers

State Grid Sanming Electric Power Supply Company, China — *Telecommunication Engineer Intern*

JUN 2016 - SEP 2016

- Trained on an overview of Signaling Concepts, Digital Transmission Systems and Mobile Technologies, along with Broadband Technologies and latest trends

SKILLS

Languages: Python, Java, C# (ASP.NET MVC), HTML, CSS, JavaScript, MATLAB, Haskell,

Database: MySQL, PostgreSQL

BI: Power BI, DAX,

Version Control: Mercurial, Git, GitHub

Software Management: Atlassian Jira, Confluence

Data Analysis/ Data Visualisation: Python(Plotly.py, Matplotlib, pandas, Numpy)

Cloud: Amazon AWS

Software Testing: Automation Testing(Platform: TestComplete), Functional Testing, Acceptance Testing, Regression Testing

Certification:Certified Translator English to Chinese (Practitioner ID: CPN7UB16S)

Hobbies: Guitar (Classical, Ukulele), Latin Dance (Gold level)

Publications

Design of miniaturized low-pass filter with improved Koch fractal DGS. In 2017 IEEE 5th International Symposium on

- Applied problem-solving skills to solve technical problems and provides IT/Network support for internal employees

EDUCATION

University of Melbourne, Melbourne(AU) — *Master of Information Technology (Specialisation: Computing)*

JUL 2017 - JUL 2019

- Major courses: AI Planning and Autonomy(Python), Cryptography and Security, Software Modelling & Design, Programming & Software development (Java), Algorithms, Database Systems & Information Modelling (MySQL), Internet Technology, Advanced Database, Software processing & Project management

Beijing University of Chemical Technology, Beijing(CN) — *Bachelor of Engineering(Communication Engineering)*

SEP 2017 - JUN 2013

- Major courses: Signal Processing, Basic of MATLAB Application, C Programming, VC++ Programming, Visual Basic programming, Antennas and Wave Propagation, Modern Telecommunication Switching, Mobile Communication, Digital Image Processing
- Awarded the Outstanding undergraduate thesis in the design of the miniaturized low-pass filter

PROJECTS

Pacman Tournament— *University of Melbourne(subject: AI Planning for Autonomy*)

- This project is a multiplayer game(UC Berkeley Pacman Capture the Flag Contest) leveraging AI techniques. Our team used Heuristic Search Algorithm Monte Carlo Tree and A* to improve the performance of Pacman search agent, our agent has sound performance in the tournament and finally ranked No.13 out of 155 teams.

Dog Grooming Website Development— *University of Melbourne (subject: Software Processes and Management)*

- This project aims to mock the real-world industry environment to implement the systems development life cycle for delivering a web-based software product. Our team used the Agile methodology to develop a website for dog grooming. We used the Kanban system in Trello to help us manage the whole process.

Poker Game— *University of Melbourne (subject: Programming and Software Development)*

- Developed a Poker game of single-player version in Java (including 9 classifications of hands)

Electromagnetic Compatibility (EMC-Beijing) (pp. 1-4). IEEE.

LANGUAGES

English, Chinese - Mandarin, Italian

VOLUNTEER & EXTRA-CURRICULAR ACTIVITY

Volunteer Online Tutor (Ardoch- Melbourne)

- Applied patience and multi-task ability as a Big Buddy to help children improve their academic performance & IT skills

Team Leader & Audio Engineer (University Radio Station)

- Managed the recruitment and training process of new members
- Showed leadership in organising various activities

REFEREES

- Gordon Lindsay

Principal of Software Engineering, OMC International

g.lindsay@omcinternational.com

- Toby Murray

Senior Lecturer, University of Melbourne & Senior Researcher, Data61

toby.murray@unimelb.edu.au