Alex Li | Resumé

- University of New South Wales
- Research Assistant (GIS & Machine Learning)

https://github.com/alexbnlee

✉ bingnan_li@hotmail.com ☎ 0435 750 188 ⊚ Sydney, Australia

KEY SKILLS

- Five-year programming experience with C#, .Net and ArcGIS Engine.
- Three-year programming experience with Python, ArcPy and IDL.
- Proficient in C, Visual Basic, Excel VBA and good understanding of Java, HTML, CSS, JS, JSON.
- Mastery of Microsoft Office packages, ESRI ArcGIS, SQL Server, Photoshop, Eclipse, Visual Studio.
- Have a good command of both spoken and written English.

EDUCATION

- **Jul 2018 – Present**

University of New South Wales

- Sydney, Australia
Research Assistant, GIS and Machine Learning

- **Sep 2011 – May 2014**

East China Normal University

- Shanghai, China
Master's degree, GIS and Cartography

- **Sep 2007 – Jul 2011**

East China Normal University

- Shanghai, China
Bachelor's degree, GIS

PERSONAL SUMMARY

I'm a self-motivated, creative GIS software developer with five years of GIS data analysis and software developing experience, having solid foundation in IT & relevant fields.

PROFESSIONAL EXPERIENCE

GIS Software Developer

- National Marine Environment Monitoring Centre, Ministry of Land and Resources of the People's Republic of China
- Jun 2014 – Jun 2018 · 4 years 1 month
- Dalian, China

I've participated in many China's national projects and developed several GIS-based software packages with C#, Python, ArcPy, IDL and ArcGIS Engine.

Key Responsibilities

- GIS-based software design, development and model implementation with ArcGIS Engine in .NET environment.
- Utilize Python scripting to automate GIS workflows.
- Analyse and process remote sensing data based on IDL, and generate map products with ArcGIS and ArcPy.
- Maintain and optimize existing satellite data receiving and processing system using Bash and Python.

Achievements

- Designed and developed "Seawater Quality Spatial Evaluation System Based on Multi-Source Data" and other GIS software using C# and ArcGIS Engine.
- Developed data processing and analysing programs to automate workflow based on Python, IDL and ArcPy.
- Completed over 500 thematic maps (Sanchi oil spill monitoring, red tide monitoring, etc.), 50+ reports.
- Various data processing scripts based on Python, ArcPy and PowerShell for different projects.

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ACTIVITIES & INTERESTS

- Blogging on GIS software development, and solving complex coding issues.
- Member of the UNSW Data Science Society.
- Jogging & swimming.
- Traveling & photography.
- Community involvement.

HONOURS & AWARDS

- Certificate of the Optical Oceanography and Ocean Colour Remote Sensing training course, 2017.
- Certificate of National Computer Rank Examination Certificate of Visual Basic, 2009.
- Certificate of National Computer Rank Examination Certificate of C Language, 2008.
- Scholarship of East China Normal University, 2008.
- East China Normal University Wang Yun scholarship, 2007.

LANGUAGES

- Chinese, native or bilingual proficiency.
- English, professional working proficiency.

GIS Software Designer Intern

- National Marine Environment Monitoring Centre
- Jan 2013 – May 2014 · 1 year 5 month
- Dalian, China

Designed 2 GIS-based software systems and improved skills of spatial data analysing and processing.

Key Responsibilities

- Fully Understand user needs, collect multi-source data and design algorithms to process these data.
- Design software frameworks and detailed documents of GIS-based software programs.
- Spatial data analysis and thematic maps production.

Achievements

- Published 2 journal articles about software design.
- Completed 2 detailed software design documents.
- Completed over 100 thematic maps and 10+ reports.

GIS Analyst & Cartographer Intern

- Shanghai City GIS Development Co. LTD
- Jun 2008 – Sep 2008 · 4 months
- Shanghai, China

A great experience working on GIS analysis and mapping with the urban data processing team. I learned a lot of knowledge and the team was very helpful and inviting.

Key Responsibilities

- Digitize urban spatial data (buildings, parks, roads, etc.) in ArcGIS based on remote sensing data.
- Create and modify attribute values of urban spatial data and producing thematic maps in ArcGIS.
- Check questionable attribute values by field survey.

Achievements

- Completed digitization of two districts of Shanghai.
- Produced more than 50 thematic maps.