

Yulian Zeng

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Technical skills

- Languages: Java, C/C++, C#, Ruby, Perl, Python
- Computing Software: Matlab, Cplex
- Database: DB2, Oracle, Sybase, MySQL, and Microsoft SQL Server
- Web: Flex, ExtJS, SOAP, Spring, CXF
- Platforms: Microsoft Windows, Unix/Linux, and Mac OSX
- IDE: Eclipse, Microsoft Visual Studio

Education

- Georgia Institute of Technology** 2016.8 - Present
Atlanta, US 2007.8 - 2012.7
- Studying in Industrial & Systems Engineering Ph.D. program (Expected graduation: 2018.12)
 - M.S. in Industrial Engineering: December 2010
 - GPA: 3.57/4
- National University of Singapore** 2004.6 - 2005.6
Singapore
- M.S., Computer Science (Certificate of Singapore MIT Alliance)
 - GPA: 4.5/5
 - Full Scholarship Recipient
- Xi'an Jiaotong University** 1999.9 - 2003.7
Xi'an, China
- B.Eng., Electrical Engineering
 - GPA: 3.7/4.0
 - Recipient of Top Gun Student Scholarship

Experience

- Research Assistant – MiTek Construction Platform Design** 2021.6 – present
Georgia Tech
- Developing warehouse layout optimization algorithms to design the modular activation platform.
- Research Assistant – Automotive Logistics Center Optimization** 2016.8 – 2021.5
Georgia Tech
- Developed and implemented algorithms to design logistics centers in Daimler plants worldwide. The algorithm could save the plant area by 50%.
 - Designed and implemented an optimization tool that is currently used by Daimler logistics planning team.
 - Environment: Eclipse, Java, Cplex
- Technology Analyst** 2012.11 – 2016.3
Morgan Stanley Firm Risk Management
- Supported and developed new features for a market risk model management system.

- Built an administrator tool for a market risk data application, which significantly reduced the turnaround time for business to make changes, and improved the efficiency for making the changes.

- Implemented data services which will improve data security and reduce dependency between application and data

• Environment: Flex, Parsley, Extjs, Spring, CXF

Morgan Stanley Summer Technology Analyst 2011.6 – 2011.7

- Automatic audit report generating of trade data for financial controllers

• Environment: C#, WPF

Research Assistant – Sefofane Project 2009.5 – 2012.5

Georgia Tech

- Developed and implemented an airline schedule optimization system for Sefofane, a South Africa air taxi company

- Achieved 35% of cost reduction

• Environment: Eclipse, Java, Microsoft SQL Server 2005

Research Assistant – Trade Chain Project 2008.8 - 2009.4

Georgia Tech

- Modeled the business processes of trading companies

- Implemented a website to ease the study of the trade data

• Environment: Ruby On Rails, HTML, CSS, AJAX, DOM, Java Script

Software Engineer 2005.7 - 2007.7

CrimsonLogic Pte. Ltd. – Singapore

- Java full-cycle development of a natural language based Business Rules Management System.

- Conducted customer training on product usage and troubleshoot problems in the fields.

- Assisted sales team by presenting product to customers, making the product sales brochure and preparing the product flash demo.

- The product was nominated for Asia Pacific ICT Awards.

• Environment: Eclipse, Java, Rich Client Platform, SWT, JFace, Java Reflection, MySQL, Oracle, WebLogic

Publications

Armin Fugenschuh, George Nemhauser, **Yulian Zeng**. Scheduling and Routing of Fly-in Safari Planes Using a Flow-over-Flow Model. Book chapter of Facets of Combinatorial Optimization, pp. 419-447.

Hock-Beng Lim, Vinh The Lam, Mao Ching Foo, **Yulian Zeng**. An Adaptive Distributed Resource Allocation Scheme for Sensor Networks. Mobil Ad-hoc and Sensor Networks, Second International Conference, MSN 2006, Hong Kong, China.

M Zhao, Q Peng, **Y Zeng**, M Shi, Y Huang. Adaptive Orbital Navigation Algorithm Using Magnetometers. World Congress on Intelligent Control & Automation, 2004, 6:5487-5490 Vol. 6.