
Jason MinLiang Kang

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Skills

- *Languages: Java, C++, C, Python, Ruby, Java Script, Coldfusion, R*
- *Platforms: Windows, Linux, UNIX, and Mac*
- *Development Tools: IntelliJ, Make, Ant, Trac, JIRA, Git, R Studio*
- *Full stack Web application development*
- *Database design, database migration, ETL, data warehouse implementation*
- *Independent research, investigation, and development*

Works

Data Analytics, Integration, and Modeling Group, JPL ***August 2012 to Present***
Senior Software Engineer

Responsibilities

- *Web application development*
- *Android development*

Projects

- *ERIDs: Web application for managing the review phrase of proposals*
- *Lexi: Web application for managing the writing phrase of proposals*
- *Space Place Prime: Android App for NASA education*
- *JPL Search: internal ETL, data aggregation and search tool*
- *Ingenium: internal tool for running robot and system testing*
- *Furnaces: internal tool for doing proposal research*

Environmental Systems Research Institute (ESRI) ***March 2011 to August 2012***
Software Engineer

Responsibilities

- *Process automation*

Projects

- *Java-Harness: Designed and developed a testing automation framework, i.e. testing harness, for testing ArcGIS products, e.g. desktop and server, on Unix-like environment*

Web Application Development Group, JPL ***May 2008 to March 2011***
Software Engineer

Responsibilities

- *Analyze customer requirements*
- *Design and implement web applications according to requirements*
- *Utilize and maintain source code control and bug tracking softwares*
- *Analyze and optimize backend databases*
- *Document the development progress on the project's wiki page*

Projects

- *PRINCESS: Documents engine for storing, managing, authoring, and searching system engineering related documents*
- *POLARIS: Program and project management application for NASA using Java and Coldfusion*
- *FRONTLINE: Web based platform that encapsulates various engineering tools for documenting all stages of a science mission*

Team X, JPL
Student Intern

Feb 2007 to June 2007

Responsibilities

- Interview customers and analyzed their requirements
- Design a database schema that would satisfy all user requirements and also comply with existing databases
- Perform data mapping for new and old databases
- Perform data transfer and data verification

Education

Syracuse University, Syracuse, NY
M.S. Applied Data Science

2020

Related Courses

- Accounting Analytics
- Information Security
- Marketing Analytics
- Big Data Analytics
- Information Visualization
- Quantitative Reasoning

Projects

- Put together a poster about New York Airbnb pricing analysis using open source data, R, and Adobe Illustrator
- Transformed existing databases into data warehouse using functional requirement analysis, business process analysis, and ETL tools
- Gained insights into how gaming can help children learn important skills using various machine learning models

California State Polytechnic University, Pomona, CA
M.S. Computer Science

2010

Thesis

- Policy-Based Access Control in Semantic Web

Related Courses

- Advance Algorithm Design
- Topics in Robotic
- Advance Computer Architecture
- Advance Database Topics
- Parallel and Distributed Algorithms
- Human and Computer Interaction (HCI)

Projects

- Implemented and compared various pattern matching algorithms using Java and Swing in Bioinformatics class

California State Polytechnic University, Pomona, CA
B.S. Computer Science

2007

Related Courses

- Algorithm Design
- Database Programming
- Cryptography
- GUI Programming
- Game Programming
- Networking

Projects

- Implemented Double Slit Experiment for a physics professor using Java Applet and Swing in Software Engineering class
- Designed and implemented a 3D game using OpenGL and GLUT in Game Development class