




## Mr. Sun

 stoneskin@gmail.com |  linkedin |  GitHub

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### Professional Summary

Seasoned Software Architect and Tech Leader with 20+ years of experience in .NET web development, system architecture, and cloud solutions. Expertise in full-stack development, DevOps, and SaaS solutions. Proven track record in leading teams, driving innovation, and optimizing system performance.

### Core Competencies

- Software Architecture & Cloud Solutions (AWS)
- Full-Stack Development (C#, React, Node.js, Python)
- DevOps & CI/CD Automation (AWS CodePipeline, Jenkins, Docker)
- Team Leadership & Technical Mentorship
- System Integration & Performance Optimization

### Technical Skills

- **Programming:** C#, JavaScript/TypeScript, Python, Java, SQL
  - **Web:** ASP.NET Core, React.js, Redux, HTML5/CSS, REST APIs
  - **Cloud:** AWS (Lambda, EC2, S3, DynamoDB, SAM, CloudFormation)
  - **Databases:** MS SQL Server, MongoDB, Redis, PostgreSQL, Oracle, MySQL
  - **Tools:** Git, Jira, Docker, Jenkins, Postman, VSCode,
  - **Methodologies:** Agile, Scrum, TDD, CI/CD, SOLID, Design Patterns
  - **AI/ML:** NLP, LLM, RAG, HuggingFace, OpenAI, Google colab, MS Copilot Studio
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### Professional Experience

#### iPipeline, Inc. (A Roper Technologies Company), PA

##### Lead Developer / Solution Architect, R&D | April 2013 – Present

- Led a team of 6 developers and 2 QA engineers, managing and building **40+ applications** (legacy and new).
- Architected and deployed multiple AWS serverless solutions, reducing operational costs.
- Designed and implemented blue-green deployment strategy, reducing downtime and release risks.

##### Key Projects:

- **Quote AI Agent:** Developed a NLP-powered prototype using LLMs and prompt engineering for Quote Web UI.
- **Calc-Engine AWS Serverless Solution:** Migrated the quote engine to AWS SAM, integrated CI/CD with GitHub and AWS CodePipeline, improving quote speed by **70%**.
- **iSolve Quoting Solution:** Led the development of iPipeline's first cloud-native application using AWS (EC2, S3, Lambda, API Gateway, DynamoDB, SQS, CloudFormation, CodePipeline).

- **Quote Client & Web API:** Built a SPA using React.js, Redux, .NET Core, Docker, deployed with Blue-Green deployment.
  - **Next-Gen Quote Engine (CalcStorm):** Developed a Node.js-based engine using React.js, MongoDB, JWT, and Webpack.
  - **Auth/PingFederate Integration:** Implemented SAML & OAuth authentication solutions for iPipeline applications.
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## Comcast Corp (Consultant via Turnberry Solutions), PA

Senior .NET Lead Developer | Sep 2012 – Apr 2013

- Designed, developed, and maintained .NET (C#) web applications.
- Led the CI/CD pipeline implementation, reducing deployment time.

### Key Projects:

- **Café:** Developed a widget-based customer management GUI using .NET MVC3 & jQuery.
  - **Auto Deployment Solution:** Built a Windows Service & Web GUI for automated deployments.
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## Kemper Corporation, PA

Senior Web Application Developer | May 2010 – Aug 2012

- Designed and maintained .NET web applications with mobile app & API integrations.
- Led a source control & auto-build deployment revolution, improving development efficiency.

### Key Projects:

- **New Policy Holder Service:** Built with ASP.NET 4 & MVC3, optimizing user experience and policy processing.
  - **UDILibrary (3-Tier Architecture):** Refactored using IoC & WCF, improving modularity.
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## Broadview Networks, PA

Web Application Developer | Apr 2003 – May 2010

- Independently designed and developed multiple internal web applications to optimize efficiency.
- Developed applications across MS SQL Server, Oracle, MySQL.
- Built J2EE/JSP-based solutions.

### Key Projects:

- **Billing Management Web GUI:** Architected using ASP.NET 3.5 & MVC Frameworks.
  - **Jeopardy Reporting & Management GUI:** Developed using ASP.NET 2.0, C#, JavaScript, nHibernate, SQL Server.
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Open Source Projects

### **Chinese Characters Recognition App for Students learning Chinese language** | *July 2023 - Present*

- Developed and donated a web application to the Mainline Chinese Culture Center for community use.
- Built using JavaScript, HTML (responsive design), PHP, and MySQL.
- Enhanced functionality by integrating the Google Dictionary API and Hugging Face OpenAI API with an LLM model.
- Open-sourced the project and mentored multiple high school and college students, guiding their contributions.

### **Minecraft-Python** | *2019-2020*

- Created a tutorial on learning Python through Minecraft, making programming more engaging and interactive.
- Developed multiple Minecraft plugins using Python, enhancing gameplay and customization.

## **Certifications & Education**

 **Sun Certified Programmer for Java 2**

 **OCA Oracle 9i DBA Certification (SQL)**

 **Software Engineering Certificate – Villanova University**

 **Master of Computer Science, Villanova University, PA (GPA: 3.85/4.00)**

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