

BATJARGAL (ALEX) BAYARSAIKHAN

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SOFTWARE ENGINEER

Software engineer with 7+ years of experience leading development, deployment, and continued maintenance of web and mobile applications. Hands-on experience developing ERP, CRM, and other enterprise-level solutions using Django (Python), Spring Boot (Java), ASP.NET MVC and WebForms (C#), ExtJS, Android and Ionic. Strong ability to train, mentor, and lead technical teams. Passionate about Machine Learning and Deep Learning.

Web & Mobile Application Development • Software Development Lifecycle • Agile-Scrum
Coding & Code Review • Testing & Troubleshooting • Software Architecture Design • ERP / CRM Development

Languages:	Python, Java, C#, JavaScript
Web:	Spring Boot, Asp.Net MVC and WebForms, WebAPI, Django, JQuery, ExtJS, AJAX, Bootstrap, HTML5, CSS
Machine Learning:	Numpy, Pandas, Keras, Tensorflow
Mobile:	Android, Hybrid (Ionic, Kendo UI Mobile)
Web Services:	RESTful, JSON
Web/App Servers:	Apache Tomcat, IIS
Frameworks:	Spring Boot, Spring Security, Hibernate, OAuth 2
Databases:	MySQL, Oracle, MongoDB
Design Patterns:	MVC, Factory Method, Singleton, Facade
SDLC:	Agile, Waterfall
Tools:	GIT, SVN, Maven, Spring Tool Suite, Eclipse, Visual Studio, Team Foundation Server, Linux Terminal, Postman, XAMPP
Platforms:	Amazon Web Services (AWS), Ubuntu, Windows Server 2008/2012

PROFESSIONAL EXPERIENCE

ITZONE LLC, Ulaanbaatar, Mongolia • 2011-2017

Leading IT and software development company with approximately 250 employees. Formerly MCS Electronics.

Technology Manager (2015-2017): Promoted to lead development of enterprise software. Consulted with stakeholders and technical teams to determine and document project requirements; lead technical teams and mentor junior developers. Recommend and enforce development processes and best practices.

Tasks Performed:

- Developed a website crawler. Cleaned and prepared data for Deep Learning category classification model using Python, Numpy and Panda.
- Conducted coding and code review. Performed requirements analysis and documentation.
- Led development process. Oversaw technical troubleshooting.
- Assisted in project launch and post-launch maintenance.
- Implemented Java-based enterprise order system. Designed user interfaces and assisted developers in designing new features. Conducted unit testing.
- Contributed to development of supply chain and customer relationship management systems. Supported developers and performed coding and testing. Migrated system to updated version.

Achievements:

- Conducted MVP coding for Tata.tunga chat bot for support centers answering user questions based on user manual and FAQs using Django and Spring boot in Amazon Web Service (Elastic BeanStalk). The product was awarded Seedstars Ulaanbaatar competition.
- Led development of base solution and microservice architecture for QPay enterprise invoicing system.
- Introduced flextime work schedule to boost developer satisfaction and retain top employees.
- Improved productivity of Agile-Scrum team by 10% by replacing 4 different tools by Team Foundation Server.
- Reduced building and deployment time from 30 minutes to 15 minutes by introducing Continuous Integration (CI) and Continuous Deployment (CD).

Senior Software Engineer (2013-2015): Developed web application and assisted testing and development teams.

Tasks Performed:

- Designed and implemented more than 100 new web forms and reports using C#.NET, jQuery, ExtJS and PL / SQL, including stored procedures, triggers, and functions.
- Led technical troubleshooting; conducted unit and integration testing.
- Developed custom controls for all teams, incorporating interconnected submodules using ExtJS and jQuery.

Achievements:

- Played critical role in developing ERP system including subsystems for CRM, HRM, SCM and PoS modules. Implemented multi-tier and MVC architecture.
- Served integral role in developing standardized framework that accelerated business logic implementation for software engineering teams. Led development of base solution and architecture for web applications.
- Led development of web module for Human Resources Management System. Implemented new design and user interface. Conducted unit test and maintained system stability. Assisted testers and developers.
- Oversaw creation of online employment application system. Conducted coding and code review. Transitioned app from ASP.NET Forms to ASP.NET MVC.

Web Developer (2011-2012): Developed sub-applications of GreenERP, consisting of 5 core systems and 20 submodules.

Tasks Performed:

- Implemented user interfaces and new features. Conducted unit testing and ensured system stability.
- Developed cloud-based point-of-sale application as SaaS model using ASP.NET MVC and Silverlight.

Achievements:

- Developed a unique base solutions from scratch using ASP.NET WebForms, C# and Javascript for Human Resource web application. The base solution with modifications was used as a core web framework for future web applications.
- Developed expertise in Silverlight, ExtJS, and other client-side technologies for rich Internet applications including jQuery, HTML5, and JavaFX. Assisted in choosing Silverlight and ExtJS.

NOTE: Additional experience includes Software Engineer at GrapeCity Mongolia (2010), Software Engineer at Desktop Asia LLC (2009) and Network Engineering Assistant at Baganuur Joint Stock Company (2008). Details upon request.

ACADEMIC PROJECTS

- **Sentiment Analysis Project, Maharishi University of Management:** Developed mobile app determining pessimistic or optimistic mood based on Facebook post history. Built RNN with LSTMs using Tensorflow in Python using Numpy, WebPy for a backend service. Cooperated with 3-person team.
- **BDTwitrend Project, Maharishi University of Management:** Visualized stream data from Twitter. Used Hadoop, YARN, Zookeeper, Kafka, Spark, Spark Streaming, Spark SQL, Hbase, Zeppelin and D3.js.

NOTE: Additional academic projects includes MUM Schedule App, Car Rental System at Maharishi University of Management, and Human Resource Registration System, Library System Automatic PCB Drilling Machine Controlling Software, Scanning Software for Network Devices at Mongolian University of Science & Technology. Details upon request.

EDUCATION

Master of Science in Computer Science

(In progress via distance education; expected completion 2019)

Maharishi University of Management, Fairfield, Iowa

Key Courses: Machine Learning, Algorithms, Big Data Technology & Analytics, Enterprise Architecture, Advanced Software Development, Software Engineering, Modern Programming Practices

Bachelor of Science in Hardware & Software Engineering

Mongolian University of Science & Technology, Ulaanbaatar, Mongolia

PROFESSIONAL DEVELOPMENT

- **Coursera:** Machine Learning • Deep Learning Specialization
- **Udemy:** Deep Learning A-Z™: Hands-On Artificial Neural Networks • Machine Learning A-Z™: Hands-On Python In Data Science • Python for Data Science and Machine Learning Bootcamp
- **Dataquest.io:** Python Programming • Data Analysis with Pandas
- **Pluralsight:** Microservices Architecture • Introduction to OAuth2, OpenID Connect and JSON Web Tokens
- **ITZone Academy:** Mini MBA Certificate • Entrepreneurship Program Certificate • 6 Thinking Hats
- **BPLUS Mongolia LLC:** Situational Leadership II • Train the Trainer
- **MCS Academy:** Coaching & Feedback Certificate

AWARDS

First place out of 10 teams in Seedstars Ulaanbaatar 2017, Tata.tunga

First place out of 60 teams in Android 2011 Competition, Aircraft Android Game

First place out of 13 teams in Mobile Content Development Competition 2009, MonScript Message Application