

# Jason Karuza

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## OBJECTIVE

Seeking positions to exercise leadership, creativity, and design in the software engineering industry

## SPECIAL SKILLS

Languages: PHP, SQL/MySQL, JS, HTML, CSS, C/C++, JAVA, Perl/CGI, ASP/VB, Labview, LISP, .NET, UML, XML

Tools and Platforms: NetBeans, MS Visual Studio, Eclipse, Android Studio, Vim, Windows, UNIX/LINUX/CYGWIN, Git, jQuery

Other Software: Wordpress, MS Office, Photoshop/Paint .NET, Dreamweaver, Rational Rose, Apache, CORE (SE tool)

## EXPERIENCE

DIRECTOR OF ENGINEERING – Engrade, Inc (A Division of McGraw-Hill Education), Santa Monica, CA 08/14 – Present

- Define software development lifecycle (SDLC) utilizing Gitflow branching, JIRA tracking, agile Scrum process involving design, development, test, and a continuous integration/release model by task
- Coordinate and manage 1) migration to AWS with concurrency improvement through re-architecting of platform into micro-services, 2) Santa Monica development team (10 – 18), 3) offshore development of automated functional and performance tests in new QA environment, 4) cross-MHE team integration/collaboration projects
- Institute individual, local development environments using Vagrant and Puppet for both OSX and Windows
- Identify and prioritize features, integrations, and other technical efforts (architecture, performance optimization, caching, and API access control), facilitate designs, planning, and technical reviews, and enforce tracking of effort
- Interview and hire engineers at various seniority levels with different skill sets for local and remote offices

SENIOR SOFTWARE ENGINEER – Engrade.com, Santa Monica, CA 03/12 – 07/14

- Mentor junior developers and lead development projects
- Design and develop curriculum management, standards-based grading, and architect larger infrastructural elements of the API-driven platform
- Define and implement software development, technical hiring, documentation, and training processes
- Recruit interns at career fairs and structure summer internship program (included individual mentors, identification of projects, facilitating learning, and ensuring production-ready completion of tasks before returning to school)

SYSTEMS ENGINEER III – Northrop Grumman Aerospace Systems, El Segundo, CA 03/09 – 03/12

- Systems Engineering/Integration and Test (SEIT) lead for Unmanned Combat Air System's (UCAS) Autonomous Aerial Refueling (AAR) Surrogate Demonstration program
- Multi-Contractor Contractual Account Manager (CAM) for AFRL AAR program System Architecture and Design
- Software Design lead and CAM for AFRL AAR program (with Boeing and Lockheed Martin software teams)

SOFTWARE ENGINEER III – Northrop Grumman Space Technology, Redondo Beach, CA 10/07 – 02/09

- Create UMATS Capacity Web Tool in .NET and SQL Server. Dynamic charts. DB management and conversion.
- Create eBRI web tool with ASP, SQL Server, and Javascript. Draw dynamic charts and spreadsheets with VB.
- Create and run spacecraft command benchmarking test using Python and Java (DSATS)
- Create two new communication links for a spacecraft test system written in Labview (EGSE)

SOFTWARE ENGINEER II – Northrop Grumman Mission Systems, Carson, CA 2/06 – 9/07

- Design and develop C++ MFC and QT GUI Applications. Architect network planning GUI software
- Design using UML and Rational Rose. Version control with Clearcase
- JAVA GUI modification. Interaction between JAVA and C/C++ through DLL and nativecode

## EDUCATION

**University of Southern California**, Los Angeles

Leadership and Management Certification, June 2011

**California Institute of Technology**, Pasadena

Systems Engineering Certification, June 2010

**University of California, Los Angeles (UCLA)**

Master of Science, Computer Science December 2005 GPA: 3.771, Magna Cum Laude

Bachelor of Science, Computer Science June 2004 GPA: 3.656 Overall / 3.707 Major, Cum Laude

## PERSONAL PROJECTS COMPLETED

Created and modified numerous websites (List2Text.com, ComputerJourney.com, LaColon.com, Sunsetsinc.com)

PHP and CGI functionality such as recursive media display, a shopping list via text message service, Wordpress modification, Android Apps, wine collection management website

**LEADERSHIP EXPERIENCE** – Engrade Director of Engineering (08/14 – present), Engrade Senior Software Engineer and Mentor (03/12 – 07/14), SEIT Lead and Preferred System Concept Lead (NGC 02/10 – 03/12), Software IPT Lead (NGC 07/09 – 04/10), Santa Monica, Pacific Palisades, and Venice HS Drumline Instructor (03/09 – 06/12) acting GUI Team Lead (NGC 10/06 – 2/07), Teaching Assistant (UCLA 9/04 – 12/05), Beverly Hills HS Drumline Instructor (9/03 – 6/08)

## PROFESSIONAL ORGANIZATIONS AND ACCOMPLISHMENTS

Member of IEEE and ACM; Author of computing educational book: [www.computerjourney.com](http://www.computerjourney.com); Taught West LA and El Camino College Extension courses on better computer use, Social Networks, MS Word and Excel; Published an article in the IT Solutions Journal on experiences with an open source project (RockBox); Professional gadget blogger for Obsessable.com