

Andrew Zammit

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Synopsis

I understand problems, engineer solutions, spread wisdom, collaborate, lead, follow, and aim to inspire. I currently work the *true* full stack, wield JavaScript, think in NoSQL, fancy Fibre, and want to learn Go.

Education

A.A.S. MEDIA & COMMUNICATION ARTS | 12/2016 | MACOMB COMMUNITY COLLEGE

- Interactive Web Media Specialty
- Magna Cum Laude, Dean's List, Guest Speaker
- Skills USA State Competition Gold Medal 2007
- Additional: Associate of General Studies, Certificate of Web Page Design
- Studied the Adobe Creative Suite, 3D Modeling, 2D/3D Animation, and Print Mediums

MONGODB CERTIFIED DBA ASSOCIATE LEVEL | 4/2015 | MONGODB, INC.

- License# 176-341-304

Skills & Abilities

DEVELOPMENT TECHNOLOGIES

- Node.js, JavaScript, TypeScript, React/Redux, PHP, CSS/SASS, HTML, Jade/Pug, bash/zsh/sh, ActionScript/Flex, JSP/JSTL, XML, YAML, JSON, BSON, Webpack, Browserify

DEVOPS TOOLCHAIN COMPONENTS

- IntelliJ IDEA, Atom, git, SVN, GitHub, Bitbucket/Stash, Jenkins, CircleCI, Travis CI, Bamboo, JIRA, Asana, Zephyr, Mocha/Chai, Jest, Jasmine, Istanbul, Plato, JMeter, Artillery, NPM, Yarn, Composer, Maven, Helm, JFrog Artifactory, Sonatype Nexus, Grunt, Gulp, Zabbix, Splunk, VirtualBox, Vagrant

INFRASTRUCTURE

- Kubernetes, Docker, Nginx, Apache HTTP, Memcache, Redis, MongoDB, MySQL, MariaDB, CouchDB, RabbitMQ, AWS EC2/ECS/S3/RDS/SQS/SNS, SSL/TLS, DNS, BMC/IPMI/DRAC, Dell OpenManage, Brocade FOS, Fibre Channel, FC SAN, Cisco ASA/IOS, OSI Networking, TCP/UDP/ICMP, VLAN, CDP/LLDP, ISL, Trunking/VTP, LAG, RSTP/MSTP, NAT, DHCP, SNMP, Xen-HVM, vSphere/ESXi, vCenter, VMware VMFS, VMware HA (DRS/vDS/EVC), PowerMTA, MailChimp, Mandrill, SPF, SenderID, DKIM

CONCEPTS

- Front-end/Back-end/Interactive Development, Design/Concurrency/Scalability/Cloud Patterns, Technical/Enterprise/Information/Infrastructure Architecture, System/Database/Service Administration, Curriculum Designing/Planning, Agile Methodologies, Unit/Functional/E2E Testing, CI/CD, Graphic/Brand/Identity Design, UI/UX, E-commerce, PCI Compliance, Affiliate Marketing

Experience

TECHNICAL CONSULTANT | OLDPARK LLC | 2/2013 - PRESENT

- Provide both long-term and short-term IT-related consulting, managerial, R&D, production, and support services for full stack development, engineering and leadership
- Build large and small software systems utilizing multiple technologies, languages, and paradigms
- Technical services include front-end and back-end web-oriented software development, system administration, database administration, application and system design, hardware and software clustering, storage solution design, systems integration, code audits, performance optimization, systems monitoring, ephemeral and serverless architecture
- Design, implement, secure, and optimize for software applications, server clustering and lifecycle management, redundant OSI and FC networks, storage arrays and distributed high-availability virtualized compute systems
- Integrate and administer high-volume automated transactional and marketing mailers

ARCHITECT I | AMERICAN EXPRESS COMPANY | 9/2017 – PRESENT

- Operating as Oldpark LLC via IntraEdge, Inc. within the Information Security business unit
- Node.js, MongoDB, Redis, Elastic Stack, RabbitMQ, Kafka, Docker, Kubernetes, Helm, Docker Swarm
- Design, architect, and document a high-throughput data analysis and indexing platform
- Implement an event-oriented serverless and microservices system using message gateways, rudimentary service mesh architecture, and various cloud design patterns
- Solutions in practice are capable of 5k sustained and 10k peak TPS with low-latency pipeline RTT
- Using declarative infrastructure as code (IaC), orchestrate the deployment hundreds of containers
- Published 10+ internal Node.js packages such as koa middleware and shared TypeScript definitions
- Presented cloud native principles at an internal seminar with a focus on distributed storage and containerization of highly stateful applications such as databases
- Top contributor to the Node.js and Docker internal technology communities

PROGRAMMER, SENIOR LEVEL | AMERICAN EXPRESS COMPANY | 2/2016 – 9/2017

- Operating as Oldpark LLC via IntraEdge, Inc. within the Web and Mobile business unit
- Node.js, MongoDB, React, full stack engineering
- Published 50+ internal Node.js packages including adapters, wrappers, express middleware, common utilities, test utilities, CLI clients, tooling, data models, factories, parsers, lexers, and generators, complete with 100%+ coverage for unit and functional tests, interface documentation, runnable examples, and a high maintainability index
- Architect and engineer server-side REST APIs for multiple products
- Integrate with SOAP, REST, and claims-based APIs utilizing multiple encryption and signing standards such as HMAC, Cryptographic Message Syntax (CMS/PKCS#7), PBKDF2/PKCS#5, and mutual TLS 1.2
- Design for distributed, multi-layer, microservices, and dependency-driven architecture
- Implement, coach, and contribute to best practices for Node.js, enterprise JavaScript, automated testing and modular architecture
- Build performant, low-memory, and stateless applications tested to 150 TPS E2E
- Utilize both simple and complex CI/CD pipelines targeting virtualized and containerized services
- Include design considerations for stateless AuthN and AuthZ, ephemeral services, and atomicity

TECHNICAL PROJECT MANAGER | PROCURENETWORKS, INC. | 10/2015 - PRESENT

- Operating as Oldpark LLC
- Project and release management
- Implemented Scrumban and increased velocity by 400%
- Started release forecasting and planning
- Apply CI/CD pipelining with Atlassian Cloud, AWS, and CircleCI
- Perform architecture, code, and security reviews (LAMP stack)
- Lead technical design of a multi-product ecosystem
- Hire, train, and manage technical resources
- Work in a distributed and virtual team across multiple continents

SENIOR TECHNICAL ARCHITECT | XHIBIT CORP | 1/2012 - 2/2013

- Plan, define, architect, develop and engineer web-based applications, web sites and mobile applications
- Work with external and internal clients to assess business and technical goals and requirements
- Lead, train, manage and guide a team of developers to realize a solution
- Manage and design internal technical infrastructure (IT), server hardware and software as well as operational utilities and resources
- Aid in project planning and resource management
- Exceptional at juggling multiple tasks and projects
- Deadline and budget oriented while managing scope, quality and the schedule
- Enforce best practice, procedure optimization and company security policies

TEAM LEAD | MRM WORLDWIDE | 5/2010 - 1/2012

- Architect international enterprise-level web-based software solutions with an expertise in front-end and middle-tier technologies while considering back-end and infrastructure constraints and benefits
- Lead a team based on a solution design
- Analyze, design and execute long-term and short-term technical strategies and maintenance requests
- Perform impact analyses and risk assessments
- Guide project scope and milestones
- Document daily procedural activities
- Create and teach training sessions, modules, and courses on the latest technical influences, techniques and standards
- Work with teams in multiple time zones and continents to realize global solutions
- Previous positions: Web Developer, Technical Architect

ADJUNCT FACULTY | MACOMB COMMUNITY COLLEGE | 8/2008 - 12/2011

- Instructor in the MACA (Media and Communication Arts) department
- Instruct ActionScript, HTML, CSS, and interactive web animation courses based on the latest software and standards (e.g. W3C)
- Design, implement, integrate and enhance curricula for web-related courses
- Use software like Notepad++, Dreamweaver, Firefox, Internet Explorer, and assorted FTP clients
- Work with a team to coordinate program-related continuity with consideration for degree and post-degree paths
- Prepare students for both the industry work-force and continuing education

LIVE SOUND ENGINEER | THE FACTORY GROUP, LLC | 8/2008 – 8/2010

- Work alone and in a small team
- Use of digital and analog boards and peripherals, live recording, indoor and outdoor events
- Primary technical POC for small and large events
- Team lead, stage manager, recording engineer, monitor engineer, front-of-house engineer, lighting technician, master electrician, rigger

ADJUNCT FACULTY | SPECS HOWARD SCHOOL OF BROADCAST ARTS | 7/2009 – 4/2010

- Instruct ActionScript, HTML, CSS, and interactive web animation courses based on the latest software and standards
- Enhance and contribute to developing curricula for a series of accelerated program courses based on administrative goals employed by the school
- Use Dreamweaver, Photoshop and Flash software to build and realize practical applications that students can carry with them after graduation

DEVELOPMENT LEAD | BAND DIRECTOR MEDIA GROUP | 8/2005 – 2/2010

- Includes graphic design and layout, client and server-side programming, database administration, system administration, interactive media, live and on-demand audio/video broadcasting, and regular site/content updates
- Work with clients, vendors, and general third-parties to realize business goals
- Build, manage, and maintain a custom content management solution that includes customizable page layout, advertiser management, inventory management, video streaming and content indexing

OWNER/OPERATOR | FREELANCE (AS ANDREW ZAMMIT) | 6/2001 – 9/2009

- Web development for small business from planning to implementation
- Assess client business requirements, plan and define technical scope, and execute those plans to create a working solution that meets or exceeds the needs of the business
- Provide on-going maintenance, support, and training for the delivered products
- Services include brand identity, general graphic design, user experience design, front-end development, back-end development, database administration, business-to-consumer applications, custom and out-of-the-box content management systems