

# Josh Stiles

programmerstilesj@gmail.com • 661-435-2347 • [www.linkedin.com/in/stilesj](https://www.linkedin.com/in/stilesj)

**Principal API Developer • Software Architect • Software Engineer • Tech Lead**

Software Architecture • Algorithms & Data Structures • Scalability • Performance Optimizations

## PROFESSIONAL EXPERIENCE

### Overview:

- 15+ years as a **Full Stack Developer** with deep expertise in **PHP, MySQL**, and the **Laravel framework**.
- Fluent in **DynamoDB, Memcached, Redis, Elasticsearch, Shell/Bash, HTML, CSS, JavaScript**, and experienced with **Go (Golang)** on various projects.
- Proficient in **building scalable and resilient platform services**, large-scale data migrations, and **performance optimizations**.
- **Extensive hands-on AWS** background (CloudFormation, CloudFront, Lambda, Fargate, SQS, ElastiCache, S3, EC2, Elasticsearch) and **familiarity with Google Cloud** deployment strategies.
- Skilled in **generating AI-driven solutions**, leveraging modern frameworks and **LLMs** to streamline content creation workflows.
- Comfortable with microservices architecture, CI/CD pipelines, and **DevOps** tools (Docker, Terraform, Telepresence, Composer, Git, SVN, Jira).
- Proven ability to **mentor and guide teams**, enforcing coding standards and driving successful project execution across cross-functional groups.
- Optimized code and queries to provide massive boosts in speed and memory management.
- Training and guiding teams and individuals to successfully execute on goals and objective
- Worked with the following technologies: Telepresence, Satis, Composer, Docker, Jira, Git, SVN, Terraform

### Professional Experience:

#### Principal Engineer / Technical Co-Founder (Stealth Startup)

#### *Location Withheld • (Company under NDA)*

Sep. 2024 – Present

- Architecting and prototyping an AI-driven platform to streamline data-driven website generation, significantly reducing manual processes and accelerating time-to-market.
- Developed multiple proofs of concept in Go (Golang) to dynamically generate and pre-fill web content using OpenAI, then refined the solution into separate modules for data ingestion and site generation.
- Building an admin interface in Laravel/PHP with a role-based access control system to let users enter business info, select templates, and preview or customize generated sites.
- Implemented MySQL schema designs to support theme-specific content requirements and integrated JavaScript single-page templates, with a plan to expand multi-page support.

- Pioneering cloud deployment strategies on Google Cloud to ensure smooth scaling and rapid iteration as the platform evolves.

**Principal Engineer** BluePipes, Inc. Pasadena, CA, USA, [bluepipes.com](http://bluepipes.com)

Apr. 2023 – Jul. 2024

Maintained and updated the original Bluepipes website:

- Rebuilt onboarding and local dev environments, allowing devs to get everything set up in less than 1 day, down from over 3 weeks previously.
- Fixed issues within docker, upgrading the Dockerfiles, docker compose files and creating new images to fix issues with old servers.
- Took over the release process, taking releases from ~1 per 2 months down to more than 1 per 2 weeks handling 49 releases
- Upgraded the Solr server, and edited settings to fix site breaking issues that had been occurring for several years, changing daily down time from ~ 15min per day (~3 min several times a day) down to virtually 0 down time.
- Adjusted EC2 instances of both solr and ubuntu server to prevent downtime from feed processor
- Updated Emails to match the SPAM requirements of google, yahoo and other email clients.
- Proactively caught several issues related to emails and servers and fixed them before they took the site down and/or caused the site/emails to get blacklisted.
- Set and enforced coding standards across 100's of code reviews.
- Implemented and fixed issues with the job feed processor that would reach out to gather data from clients and adding it to our site, and taking our data and pushing it out to linkedIn, Google and several other places.

Created New API for Bluepipes:

- Created a laravel API using Pint and PHPStan for linting, passport for authorization, solarium for solr, sail, rector, swagger, githooks to handle releases, automate linting and testing.
- Set up Forge to manage api releases to testing and prod servers in AWS
- Created over 100 different endpoints in the API, created initial code standards and enforced them through code reviews.
- Set up a Vue Frontend as the main consumer of the API using JWT tokens for authentication and authorization.
- Set up clients with Oauth 2 credentials so they could access limited sections of our API data.
- Updated MYSQL from 5.7 to 8, PHP from 5.7 to 8.2 and Solr from 8.3 to 8.11

**Senior Application Developer** Age of Learning Inc. Glendale, CA, USA, [ageoflearning.com](http://ageoflearning.com)

Oct. 2019 – Feb. 2023

Planned and developed ABCMouse 2.0 API:

- Took key metrics, issues and needs from the original 10+ year old api and developed a plan to improve and rebuild using newer technologies.
- Created 4 key micro-services utilizing multiple AWS services including Cloudfront, CloudFormation and Kubernetes to more easily distribute the load and decrease the burden on databases
- Determined and implemented the best database type for each job, instead of relying on one database for everything.

- Tied data in to an admin tools system decreasing the complexity and number of releases by more than 50%
- Created and ran training programs to introduce new systems, concepts, and practices to different teams.

Upgraded, Developed and Maintained the Adventure Academy API:

- Added more than 50 new API endpoints consumed by the client that are used regularly
- Created Database Migration, Banking, and other tools that are used regularly.
- Designed new admin tools increasing productivity and decreasing time to release by 40%.
- Created and upgraded Docker containers to ease local, dev, and release development.
- Working with PHP, MySQL, Couchbase, DataDog, NewRelic, Unity, Docker, Dynamodb, Kubernetes, AWS
- Co-ordinated and executed entire API migrations from older, obsolete framework and php version to the newer version and framework.
- Ran meetings for the team, and attended leadership meetings.
- Ran Cross Training programs teaching Unity Developers and design teams how the API code works, basics of PHP and databases increasing knowledge across the organization.
- Attended or assigned bugs, code reviews and other tasks reducing stories that fell behind, or became blockers by more than 70% as per Jira metrics.

**Application Developer (Data Science) ADP**, Beverly Hills, CA, USA, [adp.com](http://adp.com)

July 2015– Oct 2019

Summary: Started as the 5th Full time engineering hire at TMBC (The Marcus Buckingham Company), which was acquired by ADP in January 2017.

Developed 2nd-gen StandOut reporting system architecture, including modular design, unified and standardized interfaces and components, and mandatory access control (MAC) system:

- Boosted implementation speed by ~800%; library of available reports has grown 2.75x times in 1 year
- Decreased average data delivery time ~14x times, up to 580x
- Pushed completion of fully automated testing & validation system saving ~1000 man-hours per year
- Architected solutions to large data issues
- Forced data system standards and structure reducing bad data/data-connected issues by 99%

Developed StandOut API used by the mobile app.

- Ran a team including 3rd party developers, a project manager and QA
- Planned, architected and built all endpoints
- Maintained and updated API in conjunction with platform to maintain same functionality
- Investigated and fixed production issues
- Perform Code Reviews

Redesigned and expanded core features and structures of StandOut 4.x (*PHP/CodeIgniter, JavaScript/jQuery, AWS*):

- Implemented fault-tolerant role-based access control (RBAC) system with deep feature-based inheritance logic adding options to comply with laws thus extending available market by at least 50%
- Fixed and upgraded existing functionality

- Brought the initial bug count per sprint down by more than 75% through improvements to coding practices.

ADP Hackathon 2019 — Honorable mention (Personalized Actionable Coaching via Machine Learning)

**Lead Senior Web Developer**    **Branning Group**, Lancaster, CA, [branninggroup.com](http://branninggroup.com)

March 2008 – July 2015

- Worked on hundreds of websites including Chrysler, Crocs and several Billabong sites
- Led several projects to completion
- Managed up to 7 projects at one time.
- Regularly met deadlines on multiple simultaneous projects
- Created multiple reusable Content Management Systems for tons of sites
- Developed and fine tuned data management solutions using databases
- Have written extensive code in PHP, MySQL, Javascript, Ajax, CSS, HTML,ASP
- Managed and added third party services to a myriad of websites
- Coordinated with marketing, design studios and clients to create websites that meet all design and functionality requirements for a project.
- Document and create solutions for bugs and other issues.
- Exercised judgment and creativity in creating websites that met client specifications
- Created many custom algorithms to solve client issues

**Education:**

Devry University – Palmdale, Ca

**Bachelors of Science Degree:** Game and Simulation Programming 2011, (3.94 GPA)