

Brian Hilst

Software Consultant / Architect / Developer

Purposeful Software, LLC
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Profile

- ✓ Creative and strategic software architect and senior developer with extensive business acumen and deep experience in the design and development of enterprise software and systems.
- ✓ Experienced with a broad range of software platforms and technologies including iOS, Java, Ruby on Rails, responsive web site frameworks, and Amazon AWS.
- ✓ Experienced in UX design and implementation of mobile apps and web sites
- ✓ Known for strong technical leadership in start-ups and new projects, instilling best practices and building effective development teams in distributed locales.
- ✓ Experienced architect / development lead / development director of numerous start-ups, such as Avalara and SnapGig.
- ✓ Expertise in many domains such as home services, ecommerce, health care, content management, transactional tax and geo-spatial applications.
- ✓ An advocate of agile development processes, user-centric design, SOA, test-driven development, automation, Scrum, and stakeholder engagement.

Areas of Expertise

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| ✓ Application & system architecture | ✓ Mobile – native iOS, hybrid apps, and mobile web apps |
| ✓ Requirements and use case analysis | ✓ Responsive Web - ReactJS, AngularJS, jQuery |
| ✓ UX design & implementation | ✓ Amazon Web Services – Amplify, AppSync, DynamoDB, Lambda, EC2, Elastic Beanstalk, S3, Cognito, SNS, SES and more... |
| ✓ Scalable SaaS and Serverless backends | ✓ Java / C# |
| ✓ Object oriented design and software design patterns | ✓ Ruby on Rails |
| ✓ Technical leadership and team building | ✓ DynamoDB, SQL Server, MySQL, Postgres |
| ✓ Healthcare applications | ✓ Web services using GraphQL & REST |
| ✓ Geospatial and mapping applications | ✓ UML & UX design tools |
| ✓ Transactional tax (sales, consumer use, VAT) | ✓ Git, JIRA, Trello, Codeship, BrowserStack |
| ✓ Cloud deployment (AWS) | ✓ TDD – Jest, Cypress, JUnit and others |
| ✓ Agile methodologies such as SCRUM | ✓ Mac OS, Windows OS, Linux |
| ✓ Project estimation and management | |

Experience

Purposeful Software LLC, Bainbridge Island, WA

June 2013- Present

Owner and Principal Developer

- SnapGig Inc – Architect & Senior Developer for this new gig-economy startup. Responsible for delivering a highly-scalable, responsive web app and upcoming mobile applications utilizing ReactJS and the new AWS Amplify serverless platform using AppSync, Lambda, DynamoDB.
- Sears Home Services – Architect & Senior Developer on a mobile iOS app providing routing, navigation, service order management, service manuals, and other functionality for their 7000+ field technicians. Developed a web application for data management and analysis of the mobile app utilizing AngularJS, SpringData, Java.
- SamepageHealth.com – Director of development for a SaaS-based collaborative health care application providing tools to health care organization for managing patient outcomes and behavioral change. This solution utilizes Ruby on Rails, AngularJS, Postgres, and AWS to deliver responsive web-based tools. Built REST APIs for AngularJS and mobile clients.
- NetMotion Wireless – Designed and implemented an HTML5 mapping application to display mobile device connectivity and tracking data used to troubleshoot mobile workforces such as police and fire departments. The solution utilized Bing Maps, HTML5, Javascript, JQuery, ASP.NET, DevX, REST, C#, and MySql technologies. Product was delivered and released on schedule.
- Encourage Africa – Integrated donation management system for this non-profit.
- Nehemiah International – Currently building a WIX-based information web site for this Kenya outreach project

Avalara Inc, Seattle / Bainbridge Island, WA

Aug 2004 – June 2013

Software Architect / Principal Software Developer

- AvaTax – Founding team member, software architect and principal developer of Avalara's industry-leading, SaaS, transactional tax service handling over a million transactions per day. Designed the service-oriented-architecture, data model and application framework. Implemented the transactional tax engine and other key components. Collaborated with operations team on monitoring, maintenance, and disaster recovery systems. Analyzed and scaled the software to handle over a thousand transactions per second. Designed and implemented SDKs for .NET, Java, PHP, Ruby, SOAP & REST. Member of the Streamline Sales Tax committee collaborating on the public interfaces, SDKs and reports. **Built SOAP and REST APIs for tax calculation and account management used by hundreds of customers.**
- AvaTax Retail – Chief proponent and principal developer of a Point-of-Sale version of AvaTax used by vendors such as Epicor and Microsoft. AvaTax Retail operates autonomously in retail stores synchronizing nightly with the AvaTax data center.
- Avalara Content Management System – Architect and principal developer for ACM, a 3-tier, service-oriented application used by content researchers to manage, build and publish the data content used by AvaTax and tax data customers. ACM content includes: tax region definitions, spatial geometry, USPS, Maponics, NavTeq, E911, sourcing rules, tax rates, tax rules and overrides, for the US and over 40 other countries.
- Avalara Technologies Pvt. Ltd (India) – Development team lead and SCRUM Master for Avalara's subsidiary in Pune, India. Traveled to India numerous times and remotely managed the development team for about four years driving delivery from quarterly to monthly release cycles.

Rainwave Technologies LLC

Jan 1996 – Nov 2004

Owner and Principal Developer/Consultant

Autonomy Interwoven (formerly iManage Inc), Chicago, IL

- WorkSite MP Web Application – Co-architect and lead developer of a successful web-based Document Management application using Java, JSP, & SQL Server running under Apache

Tomcat, IBM WebSphere, and BEA WebLogic app servers. Lead the interface design process and co-architected the business-tier and data model. Helped build the development team, the application framework, and key portions of the client application. Reported to the CTO as a design and architecture consultant. Also consulted directly with key customers such as Fidelity and Car Phone Warehouse. This product has been highly successful in the legal market.

- WorkSite NT Web Application – Led the design and development of a complete web application for iManage's first generation content/document management server using ASP and COM technologies. Assisted building a development team to take over development before moving on as architect and lead developer for the MP (multi-platform) product described above.

FrontOffice Technologies, San Mateo, CA

- Document Management System – Co-designed and developed a complete working prototype for their document management system client application. Developed the functional specifications for the application. Co-architected the 3-tier application.
- Windows Client – Developed the Windows native client application utilizing C++ and COM.

Adobe Systems / Aldus Corp, Seattle, WA

Mar. 1990 - Dec. 1995

Principal Software Engineer

- PageMaker Graphics Team Lead – Managed a development team of 7. Coordinated development of major new features and a new graphics subsystem. Primary developer of a new object-oriented graphics rendering engine for display and printing on the Macintosh, Windows, and PostScript platforms.
- Core Technologies Team Lead – Developed a plug-in architecture and SDKs for Aldus PageMaker, Persuasion, and IntelliDraw. This included development of the Aldus GTF™ graphics interchange format.

Education

- Bachelor of Science in Computer Science with Honors - University of Kansas
Emphasis in computer graphics.
- Online courses in React, Angular, Typescript, iOS/Swift, Java, etc.

Other Information

- Volunteer software development for non-profits
- Mentor for robotics team and AP Computer Science
- Volunteer for organizations such as Young Life, Summer in the USA, YYAM, Bainbridge Youth Orchestra, KidsUp! Community Playground, Rebuilding Together.