Joel Thornton

2015 151st Ave SE
Bellevue, WA
resume@joelpt.net

http://joelpt.net

About Me

I am a passionate polyglot programmer with a focus on producing elegant, functional code. I bring an optimistic "can-do" attitude, a breadth of technical and design skills, an eye for good UX, and a strong desire to advance and hone my skills.

My goal is to work for an ethically-minded company, working on interesting and challenging projects with awesome people.

Qualifications

- I have deep experience in all aspects of the **software development lifecycle**, from requirements gathering, planning and design through to implementation, validation and ongoing support.

- I have broad experience in **full stack web development** across many platforms, with a deep background in databases and modern cross-browser design concerns.

- I know a **wide range of programming languages** (ES6/Typescript, C#, Java, Python, SQL, regex, ...) and am adept at picking up new ones.

- I am skilled at the **software design process**. At Amazon I created my team's design process guide and template, which were subsequently adopted for use across the parent org.

- I have done extensive **technical modelling**, including database schema design, security/threat modelling, interface design, framework design, and markup syntax design.

- I have done significant work around **accessibility**, **localization** and **responsive design**, and have an eye for good UX design.

- I have planned, implemented and maintained **physical, VM and cloud infrastructures**.

- I have **managed a team of developers** and served as an effective and flexible **scrummaster**.

- I value **accountability** and taking the initiative whenever I can.

- I'm a **creative problem solver** who can break a problem down into small solvable parts, either independently or with a group.

- Because I enjoy working with happy people, I actively work to **promote camaraderie** within my team.

- I have strong **communication skills** and a decent sense of humor.

Work Experience

Amazon (2013-2018)
Software Development Engineer 2

- Top **code contributor** and **code reviewer** on the Kindle Web Reader and Amazon Internal Wiki teams

- Key architect of the **modular presentation framework** used by <u>Kindle Web Reader</u>, built with Typescript, SASS, RequireJS, and Grunt

- Co-authored the **security and threat model documentation** covering multiple versions of both Kindle Web Reader and Amazon Internal Wiki, formally audited by Amazon

- Designed and implemented a **mission-critical, multi-region** cloud-based clustering server architecture for the Amazon Internal Wiki with "Tier 0" availability (e.g. if AWS goes down, the wiki still works)

- Created the **design process guide** and **design document template** for the Amazon Internal Wiki team. These were subsequently adopted and used successfully by the team's broader parent org.

- Designed and implemented the **SQL database on Android** for a new feature on Kindle Fire tablets

- Served as **scrummaster** across all my teams, then initiated and established a teamwide scrummaster rotation and mentored other scrummasters to foster teamwide product-level thinking

- Championed the adoption of the **<u>Git flow</u>** workflow strategy, and good Git hygiene in general, across multiple teams

- **Contributed positively** to my teams' cultures by hosting team events, sharing workflow tips, and advocating for developer quality-of-life improvements and tech debt burndown in story planning

Freelance (2011-2013)

- Devised, implemented, and documented a **superset of Markdown**, <u>InterviewMD</u>, which enables non-developers to easily create **data-bound web forms** tied to a **dynamically generated RDBMS model** on the server side. Built with Javascript, PHP, MySQL, and OpenEMR

- Independently created **<u>Sidewise</u>**, a donationware-driven **Google Chrome extension** comprising 18k+ LOC. Built with Javascript, HTML5, CSS3, and the Chrome Extension API

Total Living Choices (1999-2011)
Director of Software Engineering; Chief Developer

- Led the development of a web-based hospital discharge management application with **Fax, SMS, HL7, REST** capabilities, using Java/Spring3 and MS SQL Server/SSRS on the backend

- Created **multiple DB-web applications** to enable searching, ranking, appointment scheduling, and education about long-term care providers, using C#, ASP, XSLT, and MS SQL Server/SSRS

- Devised a **fax-based UI paradigm** allowing computerless users to interact with the company's products via forms-based OCR processing and SMS

- Created an **ETL process** including a custom **flat-text-to-data-table parser** for deduplicating and importing provider data from 100+ disparate sources, using SQL Server, SSIS and C#

- Collaborated on the company's **physical server/network infrastructure design** and subsequent migration to a **VM-based infrastructure**

- Researched, wrote, and implemented the company's **HIPAA** policies and procedures, and served as company's HIPAA Privacy Officer, Security Officer, and in-house trainer

- **Managed a 4-person development team** including hiring/firing and implementation of Agile processes

- **Improved team workflow** by introducing improved version control (SVN), issue tracking (Jira), and internal documentation (wiki) software and process

- Worked with Customer Support and Sales teams to create a **Customer Support Triage Workflow** with Salesforce integration and round-robin phone+SMS system

Mirage Marketing (1996-1998)

Developer, Manager

- Created MS Access-based application to manage **entire department's employees** and **generate weekly payroll**

- Managed **300 home-based contractors**

Technical Skills

Languages
Javascript/ES6/Typescript, Python, Java, C#, PHP, Lua, SQL, regex, bash

Frameworks
Spring, Android, RequireJS, Grunt, JQuery, Underscore

Standards
HTML5, CSS3/LESS/SASS, SOAP/REST, HL7

Databases
MS SQL Server/SSRS/SSIS, MySQL, SQLite, DynamoDB, Hive, Google App Datastore, MS Access

Server Stacks
Windows Server, Linux Server, VMWare, AWS

Tools
Git, Atlassian Suite, Office, Photoshop