

Interviewing

Monday, March 09, 2015 4:45 PM

Intro

- Intro of me (Name, Team I work in, role)
- Brief intro about you, who are you?
 - Age, Location
 - Hobbies
- Current position (maybe previous)
- Company team info
 - Teams setup
 - Responsibilities

Tech General

- What is your ambition e.g. more visual or coding or? (html/scss or js/ts)
- Github contributions? Provide username?
- Any blogs that you follow?
- Do you know what Scrum is?
 - Standup, sprint planning, backlog etc...
- Any projects you've developed?
- What Technologies you used?
- What do you prefer server-side **C#/.NET** or **pure frontend** HTML, CSS, JS?
- OOP
 - Interface
 - Class
 - Singleton
 - Have you **ever used dependency injection**?
- Is there any **particular pattern you generally like** to use?
- Have you heard about **SOLID principles**?

Server

- How **comfortable** are you **working with C# and ASP.NET**? (NOT: Would it be something that interests you?)
 - MVC? Which versions used?
 - WebApi?
 - Real time (familiar)
 - What would you use to push changes Server -> Web. Why?
 - What would you use to push changes Server -> Server. Why?
 - Orleans (familiar?)
 - What are **Silos** and what are **Grains**?
 - Stateless Workers
 - How can you optimize
- Familiar with MVC concept?
- C#
 - Generics
 - Lambdas
 - Interfaces
 - Unit Testing (any libraries?)
 - Dependency Injection
- Stack: ASP.NET, Orleans, SignalR, Kafka, Redis, GQL

Frontend

- How **comfortable** are you **working with HTML, JS, CSS**?
 - SPA?
 - Angular/React/Aurelia/ Any MV* library?
 - Unit Testing?
 - Frameworks (Jest, Karma)
 - CSS

- Flexbox
 - How can you layout content to be displayed as horizontal (X X X). What property is used and value?
 - ◆ A: **flex-direction: row** or **flex-flow: row *wrap***
 - How can you center content with and space them?
 - ◆ A: **justify-content: space-between** (or **space-around** or **space-evenly**) **center** is good but not best
 - Visibility Hidden VS display none?
 - ◆ Visibility Hidden retains space
 - Display inline-block VS block?
 - ◆ inline block takes the width of the content and block takes width of a full row (no side by side).
 - Difference between REM and EM
 - pseudo classes? mention 3 (hover, active, focus)
 - ◆ https://www.w3schools.com/css/css_pseudo_classes.asp
 - transition vs animation
- SASS/LESS?
 - What are the top 3 features you like about these?
 - Mixins, Sass maps
 - Transitions/Animations
 - BEM
 - **Adv.**
 - Mixins vs Placeholders, whats the difference? (@extend VS @include)
- Html Preprocessors?
 - Haml/Jade
- TypeScript?
 - What is the current version?
 - How should you define a model? **Person** (e.g. class, or interface?) *ask to define*
 - Define a method signature with 2 parameters 1 **string** and an **optional boolean**,
 - What's the difference between an **interface** and a **class**?
 - What are **union types**? ("a" | "b")
 - **Adv.**
 - Mention 3 features released in the last ~5 versions
 - What are **tagged union types**? (kind: "square", kind: "circle")
 - What are **type guards**? e.g. **function** isCat(a: any): a is Cat
 - Familiar with **keyof** (Lookup Types)? A: Get properties from Type
- State Management? experience e.g. redux
 - Benefits of using State Management
 - **Redux**: Single source of truth, debuggability, extendible, pattern/flow, time travel/replicate
- TaskRunner/Bundlers? Grunt/Gulp/Webpack/Rollup
- GraphQL
- JS
 - JSON?
 - Familiar with Promises?
 - Familiar with ES6/ES2015?
 - Ever used utility library such as **lodash**?
- JS Adv.
 - What's the difference between const, let and var
 - Are you familiar with **Redux**?
 - What is it used for? And what it tries to solve?
 - What is a store?
 - Are you familiar **Observables**?
 - What's the difference between **Promise** and **Observable**?
 - What's the difference between **do/tap** and **map**?
 - What's the difference between **map** and **switchMap**?
 - Is there any difference between array **.filter** and rxjs **filter**?
 - What are Module Loaders? e.g. AMD, CommonJS, UMD have exp?
- AngularJS
 - What's the latest version?
 - What's the purpose of a service?
 - What's the difference between a **component** and a **directive**?
 - How can you pass data to a component? (from HTML) - input/output
 - What are pipes?
 - How can you improve performance?

- **Responsive Design**
 - Frameworks
 - Twitter Bootstrap/Foundation
 - Media Queries
- **SEO**
 - What is it used for?
 - **Adv.**
 - What can you do as an SPA for SEO?
- How can you optimize an existing site?
 - A: CDN, gzip/brotli, images optimize, AoT, SSR

Tools

- Source Control: Git, SVN, TFS, P4
 - What are branches/merges?
- Build Systems: TFS, Team City, Bamboo
- Deploy: Octopus
- PackageManager: Nuget, Bower, NPM
- Packaging - Webpack, Rollup etc...
- Atlassian Products - JIRA, BitbucketServer
- Docker
- Kubernetes

Live code tasks

TypeScript

- Create a model: key (string), damage (optional number)
- Create enum for role + add to model
- Create a class HeroService
- Create a method to return all heroes + invoke to test
- Implement method with filter (getByKey) + invoke to test

Rxjs

- Difference between promise vs observable
- Basic operators tap, map, filter
- Rxjs filter vs native filter
- Filter heroes which are of the specified role type

Scss

- Convert css to scss