S.Leschev FullStack Developer Roadmap



Ranking #Dev: Global TOP 300 (Certificate)

















Languages: TypeScript, Shell, Database (T-SQL, PL/SQL, MySQL), Concurrency (Python3).

Algorithms: linked lists, binary search, hash table, queue/stack, dfs/bfs, sort, heap/hash, two pointers, sliding window, tree, greedy problems etc.

Golden Award for the Year of the Tiger Challenge



Algorithmic skills: Dynamic programming, Greedy algorithms, Catepillar method, Binary search algorithm, Fibonacci numbers, Euclidean algorithm, Sieve of Eratosthenes, Prime and composite numbers, Maximum slice problem, Stack and Queues, Sorting, Time Complexity, Arrays, Prefix Sums, Leader, etc.

Contest: Algorithms, SQL, Data Structures, Bitwise operations (bit-ops), Frontend.

Tapping on a link will take you to relevant certificates.

Front-End

V	Bas	ics		
	✓	HTML		
		/	Learn the basics of HTML	
		/	Make a few pages as an exercise	
	/	✓ CSS		
		/	Learn the basics of CSS	
		/	Style pages from previous step	
		/	Build a page with grid and flexbox	
	\checkmark	✓ JS Basics		
		/	Get familiar with the syntax	
		/	Learn basic operations on DOM	
		✓	Learn mechanisms typical for JS (Hoisting, Event Bubbling, Prototyping)	
		\checkmark	Make some AJAX (XHR) calls	
		/	Learn new features (ECMA Script 6+)	
		\checkmark	Additionally, get familiar with the jQuery library	
V	Ger	eral	Development Skills	
	✓	 Learn GIT, create a few repositories on GitHub, share your code other people 		
	✓		ow HTTP(S) protocol, request methods (GET, POST, PUT, PATCH, LETE, OPTIONS)	
	√		familiar with terminal, configure your shell (bash, zsh, fish)	
	/	Stu	died algorithms and data structures in the university	
	/	Stu	died design patterns in the university	
V	Lea	rn R	eact on official website or complete some courses	
V	Get	fam	iliar with tools that you will be using	
	√	Pac	kage Managers	
		/	npm	
	~	Tas	k Runners	

	npm scripts
	✓ gulp
\checkmark	Webpack
\checkmark	Rollup
\checkmark	Parcel
✓ Styl	ling
\checkmark	CSS Preprocessor
	✓ Sass/CSS
	✓ PostCSS
	✓ Less
	✓ Stylus
\checkmark	CSS Frameworks
	✓ Materialize, Material UI, Material Design Lite
	✓ Bulma
	✓ Semantic UI
\checkmark	CSS Architecture
	✓ BEM
	✓ CSS Modules
	✓ Atomic
	✓ SMACSS
	✓ SUITCSS
\checkmark	CSS in JS
	✓ Styled Components
	▼ Radium
	✓ JSS
	✓ Aphrodite
Stafe Stafe	te Management
\checkmark	Component State/Context API
\checkmark	Redux
	Async actions (Side Effects)

\checkmark	Redux Thunk
\checkmark	Redux Better Promise
\checkmark	Redux Saga
\checkmark	Redux Observable
✓ Hel	pers
\checkmark	Rematch
\checkmark	Reselect
✓ Dat	a persistence
\checkmark	Redux Persist
\checkmark	Redux Phoenix
✓ Rec	lux Form
MobX	
Type Checker	ers
✓ PropTyp	es
TypeSci	ript
Flow	
Form Helper	S
Redux F	orm
Formik	
Formsy	
Final Fo	rm
Routing	
✓ React-R	louter
Router5	
✓ Redux-F	First Router
Reach R	Router
API Clients	
✓ REST	
✓ Feto	ch
✓ Sup	perAgent
✓ axio	os
GraphQ	L
✓ Apo	ollo

		✓ Relay
		✓ urql
√	Utili	ity Libraries
	√	Lodash
	√	Moment
	\checkmark	classnames
	/	Numeral
	\checkmark	RxJS
	\checkmark	ImmutableJS
	\checkmark	Ramda
V	Tes	ting
	\checkmark	Unit Testing
		✓ Jest
	\checkmark	End to End Testing
		Selenium, Webdriver
	\checkmark	Integration Testing
		✓ Karma
/	Inte	rnationalization
	\	React Intl
	\	React i18next
√	Ser	ver Side Rendering
	\checkmark	Next.js sources
√	Stat	tic Site Generator
	\	Gatsby
√	Bac	kend Framework Integration
	\	React on Rails
√	Mol	oile
	\	React Native
√	Des	sktop
	\checkmark	Electron
	\	React Native Windows

Back-End

√	Prerequisites
√	JavaScript
√	NPM
√	Node.js
√	ECMAScript
√	General Development Skills
✓	Learn GIT, create a few repositories on GitHub, share your code with other people
√	Know HTTP(S) protocol, request methods (GET, POST, PUT, PATCH, DELETE OPTIONS)
√	Studied algorithms and data structures in the university
√	Studied design patterns in the university
√	Clean code
√	Web Frameworks
√	Express.js
√	Adonis.js
√	Meteor.js
√	Nest.js
√	Sails.js
√	Koa.js
√	Loopback.io
√	egg.js

√	mid	way
\	Dat	abases
√	Rela	ational
	\checkmark	SQL Server sources.sql
	\checkmark	PostgreSQL sources.sql
	\checkmark	MariaDB sources.sql
	\checkmark	MySQL sources.sql
\	Clo	ud Databases
	\checkmark	CosmosDB sources
	\checkmark	DynamoDB sources
/	Sea	rch Engines
	\checkmark	ElasticSearch
	\checkmark	Solr
	\checkmark	Sphinx
/	Nos	SQL
	\checkmark	MongoDB sources
	\checkmark	Redis sources
	\checkmark	Apache Cassandra
	\checkmark	LiteDB
	\checkmark	RavenDB
	\checkmark	CouchDB
√	Cac	ching
√	Noc	de-Cache
√	Dist	ributed Cache
	\checkmark	Redis sources
	\checkmark	Memcached sources
√	Mer	mory Cache
√	Log	ging
✓	Log	Frameworks
		Node-Loggly

\checkmark	 ✓ Winston ✓ Node-Bunyan ✓ Morgan Log Management System ✓ Sentry.io ✓ Loggly.com
\checkmark	Template Engines
\checkmark	Mustache.js
\checkmark	Handlebars
\checkmark	EJS
\checkmark	Pug
\checkmark	Nunjunks.js
\checkmark	Real-Time Communication
\checkmark	Socket.IO
\checkmark	Typed Superset
\checkmark	TypeScript
\checkmark	Flow
\checkmark	API Clients
	 ✓ REST ✓ Node-Rest-Client ✓ Axios ✓ GraphQL ✓ Authentication
\checkmark	Good to Know
	Async.jsPM2Commander.js

	✓	Passport
	\checkmark	Nodemailer
	\checkmark	Marked
	\checkmark	ESLint
/	Tes	ting
	\checkmark	Unit, Behavior, Integration Testing
	/	Jest
	/	Jasmine
	\checkmark	Chai
	\checkmark	Mocha
	√	Enzyme
	\checkmark	Sinon
	√	E2E Testing
	/	Selenium
	\checkmark	Puppeteer
/	Tas	k Scheduling
	\checkmark	Agenda
	\checkmark	Cronicle
	\checkmark	Node-Schedule
/	Mic	
		roServices
	✓	roServices Message-Broker
	✓	
	✓	Message-Broker
	✓	Message-Broker RabbitMQ
	<!--</th--><th>Message-Broker RabbitMQ Apache Kafka</th>	Message-Broker RabbitMQ Apache Kafka
		Message-Broker RabbitMQ Apache Kafka ActiveMQ
		Message-Broker RabbitMQ Apache Kafka ActiveMQ Azure Service Bus
		Message-Broker RabbitMQ Apache Kafka ActiveMQ Azure Service Bus Message-Bus

✓ JavaScript Algorithms and Data Structures

Computer Science

```
✓ Computer Science knowledge
   ✓ Algorithms cert
       ✓ Sorting cert
       ✓ Graph Theory cert
          ✓ Trees cert
       ✓ Strings cert
       ✓ Greedy cert
       ✓ Dynamic Programming cert
       ✓ Bit Manipulation cert
       ✓ Recursion cert
       ✓ Game Theory cert
       ✓ NP Complete cert

✓ Big-O notation cert

   ✓ Abstract Data Types cert

✓ Stack cert

       ✓ Array cert
       ✓ List cert
       ✓ Map cert
       ✓ Multimap cert
       ✓ Set cert
       ✓ Multiset (Bag) cert
       ✓ Graph cert
          ✓ Tree cert
       ✓ Queue cert
       Priority Queue cert
       ✓ Double-ended priority queue cert
       ✓ Double-ended queue cert
   ✓ System design
       Design large-scale systems / Amazon, Dropbox, Instagram,
          Facebook, Netflix, Pinterest, Twitter, Uber, Youtube
```

Project Guidelines

A set of best practices in my projects.

- ✓ Git
- Documentation
- Environments
- Dependencies
- Tesing
- Structure and Naming
- Code Style
- Logging
- ✓ API

Licenses & certifications

- Y LeetCode Global TOP 300 (TypeScript: Certificate, Sources: TypeScript).
- Y Golden Award for the Year of the Tiger Challenge (TypeScript: Certificate, Sources: Codility).
- LinkedIn Skill Asessment (Front-End): Front-end Development, Angular,
 React, Javascript, HTML, CSS, jQuery.
- LinkedIn Skill Asessment (Back-End): Node.js, Java, Spring Framework, Scala, C#, .NET Framework, Unity, Python (Programming Language), Django, PHP, C (Programming Language).
- LinkedIn Skill Asessment (Databases): MongoDB, NoSQL, Transact-SQL (T-SQL), MySQL.
- LinkedIn Skill Asessment (Infra/DevOps): Bash, Git, Amazon Web Services (AWS), AWS Lambda, Google Cloud Platform (GCP), Microsoft Azure, Hadoop, IT Operations.

Contacts

I have a clear focus on time-to-market and don't prioritize technical debt.

🖎 #startups #management #cto #swift #typescript #database

Email: sergey.leschev@gmail.com

LinkedIn: https://linkedin.com/in/sergeyleschev

Twitter: https://twitter.com/sergeyleschev

Github: https://github.com/sergeyleschev

Website: https://sergeyleschev.github.io

PDF: Download

ALT: SIARHEI LIASHCHOU