

ONUR ŞAHİN

Software Engineer

sahinonur2000@hotmail.com ♦ <https://github.com/onsah>

EDUCATION

Bilkent University, Turkey

June 2021

B.S. in Computer Science

Full Scholarship

Overall GPA: 3.49/4.00

Bilim ve Sanat Merkez, Turkey

2006-2016

Bilim ve Sanat Merkezi is a special foundation by the Turkey government which focuses on education of gifted children. In early years students start with general concepts like scientific learning then they assigned to more specialized areas like physics or math.

EXPERIENCE

Carbon Health

February 2021 - Present

Full Stack Developer

Remote

- Mostly backend engineer using Scala & Kotlin
- Writing/Maintaining new microservices
 - Using technologies including PostgreSQL, gRPC, SQS/SNS, Elastic Search and many others.
 - Optimized a long running database read job from 25 hours to 40 minutes with better use of database indexes and optimizing queries for performance.
 - Designed and integrated an async workflow into the current system. Instrumented logging and observability tools to monitor problems easily.
 - Designed and implemented a microservice.
- Also working on React Native projects when needed.

Research and Internship at iVis

June 2020 - December 2020

- Incremental Packing Research (In progress)
 - Packing of disconnected graphs is an important topic in various areas. There are very efficient algorithms in terms of fullness but these algorithms ignore the initial layout of the graphs. We are trying to come up with a feasible packing algorithm that works incrementally so that user preserves their mental map
- Cytoscape Layout Utilities
 - Formerly, the packing algorithm of this extension was centering to the a fixed point
 - Added the ability to preserve to the current center of components
 - Fixed some bugs that would lead the algorithm to crash
 - For my contributions you can check PR #19
- Cytoscape Context Menus
 - Removed jQuery dependency by replacing functionality of jQuery with DOM api or implementing the similar functions
 - Added recursive submenu feature. Formerly the extension only had top level menu and no submenu. I added nested submenus so that any menu item can have submenus
 - Configured project with webpack and babel to develop using modern js but deploy in more compatible js version for browsers. Learned about modern js tools such as bundlers and transpilers

TECHNICAL STRENGTHS

Computer Languages	Prolog, Haskell, AWK, Erlang, Scheme, ML
Protocols & APIs	XML, JSON, SOAP, REST
Databases	MySQL, PostgreSQL, Microsoft SQL
Tools	SVN, Vim, Emacs