

## MEHMET FURKAN ŞAHİN

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*A passionate senior year Computer Engineering student with strong knowledge in algorithms and valuable work experience in C, Java, PostgreSQL, and data visualization. Looking for a full time software engineering position that I can challenge myself while improving as a software engineer.*

### EDUCATION

**2012-2017 June Bilkent University, Computer Science, Ankara, TURKEY:** B.Sc. granted comprehensive scholarship.  
CGPA: 3.75/4.00 Major CGPA: 3.92/4.00 (CS classes)

Ranked 659th. in Nationwide University Entrance Exam among 1.8 million students.

**2015-Fall École Polytechnique Fédérale de Lausanne, Switzerland:** Exchange program, Computer Science (IN, B.Sc.)

### EXPERIENCE

**2016 October, Publication, The cBioPortal for cancer genomics and its application in precision oncology:** Author, detailed information can be found in the [link](#).

**2016 July - 2016 August, Institute of High Performance Computing, A\*Star, Singapore:** Research Assistant. Worked on a 3D robotic arm model which can play ping pong.

**2016 May - 2016 July, Citus Data, Istanbul:** Software Engineering Internship, created percentile approximations extension for PostgreSQL. Percentile queries are speeded up 400x.

**2015 August - 2016 January, Human-Computer Interaction Group - EPFL, Switzerland:** Undergrad Researcher, developed a data visualization tool for MOOCs data with D3 JavaScript library.

**2015 June - 2015 September, Memorial Sloan Kettering Cancer Center, New York, USA:** Software engineering intern, developed Java-Script based graph visualization tools for Genomics Data with Cytoscape JS.

### SCHOLARSHIPS, AWARDS, HONORS

**2012-Present, Bilkent University High Honor Student**

**2015, TUBITAK (Turkish Science Foundation) Undergraduate Researcher Scholarship**

**2014-2013, IEEEExtreme 8.0-7.0 Programming Competition:** As a team of three undergraduate students, which is named TechWeb, ranked 1st. in Turkey, 30th. In IEEE Region 8, 73rd. in the world among 2500 teams competing throughout the world.

### PROJECTS

**CrypDist, Senior Project - Present:** CrypDist is a blockchain based encrypted content distribution network. The project aims to avoid data access blocks and reduce the time needed to deliver big data. I take responsibilities on the development of distribution system.

**Section Checker, Bilkent University - 2016:** A program which checks available quotas periodically for desired course section and warns the user in case of availability is developed with a colleague. It was used by Bilkent University students in course selection period.

**HDR, Citus Data - 2016:** HDR is a Histogram based percentile approximation extension for PostgreSQL database systems. It provides 400x speed increase with 0.0001 error ratio. The whole project is handled by myself.

**Beatify, EPFL - 2015:** Beatify is created as a group project with 2 more colleagues. It is a music player android app which finds the best music from your Spotify account according to the instant heart rate of the user. I implemented Spotify integration.

**cBioPortal - Network transformation, MSKCC - 2015:** Network tab of cBioPortal is transformed from a flash based version to Cytoscape JS. The whole project is handled by myself.

### COMPUTER SKILLS

**Programming:** Java, C/C++, SQL(PostgreSQL, MySQL), JavaScript, Scala, Python, Android, D3, Cytoscape JS.

**Operating Systems:** OS X, Microsoft Windows, Linux

**Interests:** Distributed Systems, Databases, Algorithms, Big Data, Cloud Architecture, Mobile applications.

**Courses:** CS 425 - Algorithms for Web-Scale Data, CS 476 - Automata Theory and Formal Languages, CS 342 - Operating Systems, CS 353 Database Systems, CS 315 - Programming Languages, EPFL - Functional Programming, EPFL - Lab on Apps Development for Tablets and Smartphones, EPFL - Projet en Informatique I.

### MEMBERSHIP & PROFESSIONAL ACTIVITIES

**2014 – 2015 Young Guru Academy Conference Participant**

**2013 – 2015 Bilkent IEEE Coordinator – International IEEE Member:** Coordinated volunteer students to organize technical and social events and trainings about courses to help other Bilkent students.