MEHMET FURKAN ŞAHİN



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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)

2015-Fall École Polytechnique Fédérale de Lausanne, Switzerland: Exchange program.

EXPERIENCE

2016 October, Publication, The cBioPortal for cancer genomics and its application in precision oncology

Author, detailed information can be found in the [link.](http://cancerres.aacrjournals.org/content/76/14_Supplement/5277)

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, IEEEXtreme 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.

LANGUAGES

**Turkish:** Native **English:** Fluent **French:** Beginner **German:** Beginner

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.