

# FATIH OZER

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## EDUCATION

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**University of Pennsylvania, *Dual Degree Candidate*** - Philadelphia, PA August 2017 - (expected) June 2021

- **GPA:** 3.40/4.00
- **School of Engineering and Applied Science:** Bachelor of Science in Engineering: Computer Science
- **College of Arts and Sciences:** Bachelor of Arts: International Relations, Minors: Economics, Mathematics
- **Coursework:** Algorithms, Computer Organization and Design, Computer Security, Linear Algebra, Networked Systems, Probability, Software Design and Engineering, Statistical Inference

## PROFESSIONAL EXPERIENCE

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**University of Pennsylvania:** Lead Teaching Assistant (TA) (Mathematics) - Philadelphia, PA Aug 2018 - Present

- Conducted Calculus and Linear Algebra recitations for 90 engineering students for 3 hours a week
- Organized a team of 20 TAs and numerous workshops on the new curriculum and how to improve student engagement
- Pioneered transition of Calculus classes to follow an application-based approach to Mathematics
- Winner of the Good Teaching Award (Highest honor at the Department of Mathematics)

**Talenox:** Full Stack Software Engineer Intern - Remote from Hong Kong Jun 2020 - Sep 2020

- Examined user feedback on product and implemented new frontend features on AngularJS to improve user experience
- Designed, tested and implemented an API for integration with various third party firms across Asia
- Refactored backend database by writing Ruby scripts to convert existing databases to allow data analysis with SQL
- Learned and coded with MVC-based Ruby on Rails, PostgreSQL and AngularJS at [www.talenox.com](http://www.talenox.com)

**Efrtls:** Full Stack and Mobile Software Engineer Intern - Remote from Hong Kong Jun 2020 - Sep 2020

- Mentored a college intern to adjust to working with at an software company and build software engineering skills
- Developed mobile and web apps under Efrtls' portfolio of apps using React Native and ReactJS with Google Cloud
- Launched a web portal for integration of app with telecommunication company increasing user base by 3000%

**Istanbul Technical University:** Consulting Intern for Prof. Ufuk Cebeci - Istanbul, Turkey Jul 2019 - Aug 2019

- Consulted for innovative firms to develop products, streamline manufacturing and push products internationally
- Collaborated and filed patent and grant applications to TUBITAK (Turkey's Scientific and Technological Research Council) and the European Union Patent Office (EPO) on the world's fastest soap packaging machine

## PROJECTS & SKILLS

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**Programming languages:** *Java, C, C++, Python, JavaScript, Ruby, Verilog*

**Technologies:** *Git, MongoDB, React Native, Node.js, Google Cloud Platform, AWS, Docker, PostgreSQL, ReactJS*

**Group Networking Project (*Python, Git*):** Music Streaming Service

- Constructed a custom protocol for music streaming between a client and a server
- Developed on server side supporting play, pause, stop, next song features with network optimizations for speed

**Android App (*Java, Node.js, MongoDB*):** Immediate Healthcare App

- Designed a healthcare app in a team to connect sick patients with doctors in villages and small towns
- Mobile app developed with Android Studio and Java using the Agile Software Development LifeCycle
- Created a REST API on Node.js to be used with MongoDB and basic Website using HTML5 and CSS

**Embedded Systems Term Project (*C++, mBed* processor):** Ergonomic Pillow

- Proposed a solution to a medical problem faced by patients with persistent neck cramps - an inflatable pillow
- Pillow depended on the position of the user, inflating only to align the neck with the spinal cord and head

## LEADERSHIP AND EXTRACURRICULAR ACTIVITIES

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**Access Engineering at University of Pennsylvania:** Lead Instructor Jan 2018 - Present

**Penn Aerospace Club's Aircraft Electrical Team:** Team Lead Jan 2018 - Present