

# AHMET K. YILMAZ

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<https://akutluhan.github.io/>

## PROFESSIONAL PROFILE

Strong foundation in undergraduate computer science. Possesses 8 years of experience designing, building, troubleshooting high-quality code in various programming languages. Experience with writing test scripts. Technical skills include C, Java, Kotlin, Unix, Linux, Weka Explorer.

## EDUCATION

**George Washington University, Washington, DC**

**May 2020**

Bachelor of Science in Computer Science

**Honors:** Magna Cum Laude (GPA: 3.63/4)

**Technical Track:** Artificial Intelligence

**Senior Design Project:** AnyShare

**Courses:** Introduction to C Programming, Algorithms&Data Structures, Software Engineering, Algorithms, Continuous Algorithms, Systems Programming, Computer Architecture I, Discrete Math I & II, Database Systems&Team Projects, Operating Systems, Data Mining, Intro to Artificial Intelligence, Software Design for Handheld Devices, Capstone Design Project I & II

## TECHNICAL SKILLS

- **Programming languages:** C, Java, HTML, JavaScript, R, Android Development with Kotlin
- **Databases:** SQL Server, MySQL, Visual Studio
- **Operating Systems:** Windows XP, 7 and 8, UNIX, LINUX, Ubuntu on VirtualBox, XV6
- **Data Mining:** Weka Explorer
- **Version Control:** GitHub
- Microsoft Suite
- Arduino, Fritzing, Raspberry Pi

## SELECTED PROJECTS

**CSCI 4243W Capstone Design Project I and CSCI 4244 Capstone Design Project II**

**Fall 2019-Spring 2020**

- Designed and implemented mobile app portion of AnyShare Project to realize sharing/renting anything.
- Used Android Studio and Kotlin for implementation.
- Used Firebase Authentication for account creation/verification and login activity.
- Stored and updated Rent, Loan, Locker info at Firebase Realtime Database.
- Used Google maps to show the locations of the empty lockers or matching loaned items.
- Generated a QR code to access the chosen locker.

**CSCI 4511 Artificial Intelligence**

**Spring 2020**

- Implemented Java code to read a random graph to calculate the shortest path from start to end points using Dijkstra and A\* algorithms and compared their performances.
- Implemented generalized Tic-Tac-Toe for NxN board using minimax algorithm in Java.
- Implemented a program in Java that calculates optimal utility values and policies for a given Grid World using Value Iteration and Policy iteration algorithms and compared their performances.
- Implemented Viterbi algorithm in Java to find the most likely explanation of the customer journey given the observations.

**CSCI 4237 Software Design for Handheld Devices**

**Fall 2019**

- Designed and implemented a mobile app to help GWU students discover locations of a desired set of cuisines near campus.
- The restaurants accepting dining cash as a part of on-campus meal plan differentiated.
- Displayed Yelp reviews of the selected restaurant.

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## CSCI 3411 Operating Systems

Fall 2019

- Modified xv6 operating system to add the following functionalities
  - 1-to-1 threads
  - Synchronization via blocking, spinning, or combination of blocking and spinning
  - Synchronization via mutexes

## CS699 Data Mining

Summer 2019

- Using raw public data downloaded from the Centers for Medicare & Medicaid Services website, developed a classifier model with Weka Explorer to assign 1 through 5 star rating to 4573 hospitals.

## CSCI 3410 Systems Programming

Spring 2019

- Built a circuit for Tic-Tac-Toe game using 3 Arduinos, 2 player and a judge, that communicate via I2C bus.
- Built heart rate monitor where Arduino communicates with a host program (C code) running on Ubuntu to send timestamped blood pressure values so that the host can store the values in histograms to detect outliers.

## CSCI 2441W Database Systems & Team Projects

Spring 2018

- Designed and implemented Database Management System for Hotel Management using SQL and Visual Studio.
- Provided easier bookkeeping and query.

## WORK EXPERIENCE

### Gryphon Networks, Toronto, Canada

July-August 2019

- **Summer Intern: Systems Software Developer**
  - Researched on how to:
    - Utilize crypto support of Trust Zone on ARM platform to improve security of the systems at low cost.
    - Utilize Open-TEE and Trust Zone API to tie the secure and normal worlds together.
    - Help the company -potentially- save millions of dollars with this way of providing crypto functionality.

### SEAS Computing Facility, Washington, DC

January-May 2017

- **Lab Technician:**
  - Troubleshooted technical issues encountered by students, faculty, and staff.
  - Improved the overall response rate.

### George Mason University, Ali Vural Ak Center, Fairfax, VA

July-August 2017

- **Summer Intern: Web Developer/Maintainer**
  - Kept content of the department website up to date by gathering data and feeding it to the web page.
  - Updated the layout of the existing web page for improved user experience.

### Vector Marketing Corporation, Fairfax, VA

June-August 2016

- **Sales Representative/Software Support:**
  - Provided software support to improve marketing experience of sales representatives.
  - Helped increase the productivity, which later translated to more sales.

### Foundation for Political, Economic, and Social Research, Washington, D.C.

June-August 2015

- **Summer Intern:**
  - Assisted with research, data gathering and analysis of current events for projects.
  - Findings were used to improve foreign policies between Turkey and U.S.

## HONORS and AWARDS

Dean's Honor List at George Washington University

Fall 2016, Spring 2017, Fall 2018, Spring 2019, Fall 2020

Sigma Alpha Pi: The National Society of Leadership and Success (NSLS)

2019-present

Sigma Alpha Lambda: National Leadership and Honors Organization

2017-present

Presidential Academic Scholarship by GWU

2016-present

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## VOLUNTEERING

**NBC 4 Health & Fitness EXPO, The GW Transplant Institute, GW Ron & Joy Paul Kidney Center and GW/MOTTEP** Jan. 2017

- Blood pressure screening (15 hours).

**DCA (a non-profit organization), Lanham, MD**

June 2017

- Information desk attendant (40 hours).

**ACH Inc. Berkeley Community Center Summer Camp, Arlington, VA**

June-August 2015

- Science, Math and Computer Science tutor of 20 underprivileged children (19 hours).

**Fairfax Public Library, Fairfax, VA**

September-January 2014

- Assistant librarian (12 hours).

**Capital Area Food Bank as a Staff/Assistant, Lorton, VA**

July 2014

- Processed a thousand applications for food assistance per eligibility criteria as an office assistant (10 hours).

## ORGANIZATIONS

GW Data, GW Tech Collective, ACM Student Chapter at GWU, Robotics Team, GWU Turkish Student Association

LANGUAGES English (Native), French (Advanced), Turkish (Intermediate)

References available on request.