Enes Kemal Ergin

Tel: 832-970-4591 | E-mail: eneskemalergin@gmail.com

EDUCATION

Bachelor Degree of Science in Computer Science (Software Engineering) May 2013 - May 2017
North American University - Houston, TX
GPA: 3.72 **Honors:** Exceptional Merit Scholarship Recipient, 2012

RELEVANT EXPERIENCE

Visiting Researcher
Harvard Medical School, Churchman Lab – Boston, MA November 2015 – Present

- Topic of research: predicting the determinant of alternative splicing on RNA transcription
  - Worked with Lua/Torch, Python Pandas, Numpy, Matplotlib
  - Developed a Convolutional Neural Network
- Topic of research: predicting transcription factor binding sites over cell types
  - Attended a ENCODE-DREAM competition: Link
  - Worked with Linux terminal tools, Python (Tensorflow, Pandas, Numpy, Matplotlib,)
  - Developed a multi-task learning CNN

Undergraduate Research Assistant
North American University Bioinformatics Lab – Houston, TX September 2015 – Present

- Lead student of the Bioinformatics Lab with 6 members
- Tutoring newcomers with prepared special tasks
- Learning together on various topics with weekly presentations
- Developed an open source Bioinformatics Curriculum for Undergraduate students: Link

Teaching Assistant
North American University – Houston, TX September 2015 – Present

- Teaching algorithms class (COMP 3317)
  - Gave lab sessions
  - Prepared extra sessions for; Git/GitHub workshop, Rapid Python Programming
  - Prepared and evaluated exams

Software Development Intern
Harmony Public Schools – Houston, TX July – August 2015

- Developed online education system and mentoring program using Moodle.

Undergraduate Research Assistant
Yeditepe University – Istanbul, Turkiye August 2014 – May 2015

- Worked remotely as a genomic data scientist
- Got data from NCBI PubMed database
- Used virtual docking software to determine the best possible enzymes and molecules by matching 3D structures.

Volunteer Python Instructor
North American University – Houston, TX February – April 2015

- Taught python programming basics to 35 people from students, faculty, and staff of NAU.
- Was the first ever workshop/class gave by a student in NAU history.
- Link to the course in GitHub

Undergraduate Research Assistant
TIBER (Texas Institute of Education and Research) – Houston, TX September 2014 – April 2015

- Worked as an experimental biologist, on sinusitis bacteria.
- Designed experiments by preparing agar solutions, bacteria culture.
- Kept the records of the experiments.

PROJECTS

Open Source Bioinformatics Curriculum June 2016 - Present

- Completed by my lab and open source community
- Link

Scholar Development Center February 2015 - Present

- Created an organization which is a non-profit community based under Raindrop Foundation
- To help undergrad students around the Texas achieve their dreams in academia or industry

Essential Algorithms in Python September 2014 – Present

- Started to store codes implemented in Python from Essential Algorithms: A Practical Approach to Computer Algorithms by Rod Stephens.
- Continue to put more algorithms written in Python
- Number theoretical Algorithms are also available
- Link

PUBLICATIONS

Identification of small molecule binding pocket for inhibition of Crimean-Congo hemorrhagic fever virus OTU protease July 2016

- TUBITAK - Turkish Journal of Biology
- Link

LEADERSHIP

- Bioinformatics community, Member — August 2016 – Present
- ISCB (International society of computational biology), *Member* — August 2016 – Present
- Future Leaders Club, *Director* — April 2015 – Present
- Student Government, *VP of Unity and Social Justice* — September 2014 – Present
- ACM (Association of Computing Machinery), *Member* — February 2013 – Present
- NAU-ACM (Association of Computing Machinery), *Vice President* — September 2015 – May 2016
- Student Government, *VP of Finance* — November 2014 – April 2015
- NAU-ACM (Association of Computing Machinery), *Secretary* — February 2013 – September 2014

HONORS AND AWARDS

- President's Honor Roll Certificate — April 2016
- President's Honor Roll Certificate — April 2015
- North American University "The Most Outstanding Student" Award — April 2015

CERTIFICATES

- Bioconductor for Genomic Data Science — May 2016
- Algorithms for DNA sequencing — July 2016
- Bioinformatics Methods II — December 2015
- Bioinformatics Methods I — December 2015
- Python for Genomic Data Science — October 2015
- Introduction to Genomic Technologies — October 2015
- R Programming — February 2015
- Introduction to R — January 2015
- The Data Scientist′s Toolbox — December 2014
- Programming for Everybody (Python) — June 2014

TECHNICAL SKILS

- **Programming Languages:** Python (Pandas, Numpy, H5py, Matplotlib, Tensorflow, Biopython), R, Java, C/C++, JavaScript, HTML, CSS
- **Database Systems:** SQL, MySQL, MongoDB
- **Operating Systems:** Mac OS, Linux-Ubuntu, Windows

LINKS

- LinkedIn: https://www.linkedin.com/in/eneskemalergin
- HackerRank: https://www.hackerrank.com/eneskemalergin
- Github: https://github.com/eneskemalergin
- Blog: http://eneskemalergin.github.io