

Amir Ghafari

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TECHNICAL SKILLS

Nodejs, Python, C/C++, Ruby, bash, \LaTeX , sql, php, javascript, verilog, java, C#, AWS, Vue/Vuex, React, Redux, Flux, Ruby on Rails, Scrapy, SDL, Qt, Git, Jira

EDUCATION

- 2018-present **M.Sc in Computer Science** - *University of Massachusetts Amherst*
- **GPA:** 3.8/4
 - **Courses:** Advanced Machine Learning, Advanced Algorithms, Neural Network, Advanced Digital Forensics Systems
- 2013-2018 **B.Sc in Computer Software Engineering** - *University of Tehran*

PUBLICATIONS

- Feb. 2020 **MassBrowser: Unblocking the Censored Web for the Masses, by the Masses**
Milad Nasr, Hadi Zolfaghari, Amir Houmansadr, Amirhossein Ghafari
- July 2019 **On the Importance of Encrypted-SNI (ESNI) to Censorship Circumvention**
Zimo Chai, Amirhossein Ghafari, and Amir Houmansadr, University of Massachusetts Amherst

CERTIFICATIONS

- Aug. 2020 **AWS Certified Solutions Architect - Associate** issued by Amazon Web Services (AWS)
- July 2020 **AWS Certified Cloud Practitioner** issued by Amazon Web Services (AWS)
- July 2020 **Machine Learning** issued by Stanford University

WORK EXPERIENCES

- 2017-2018 **Frontend Developer at TAP30**
- Tap30 is a private-cab e-hailing platform providing standard and premium logistics services to companies and individuals.
- Participated in early team decisions such as code styles, project templates, technologies to use and code management.
 - Increased number of rides per day by developing a new adaptive pricing service(Surge Pricing).(cross team project) **Nodejs**
 - Increased number of active corporate users by developing a new corporate web application. **React/Redux**
 - Facilitated the process of hiring new drivers significantly by developing a new web application for recruiters. **React/Redux**
 - Improved user experience for customer service associates by adding new features to the back-office application. **React/Redux**
 - Facilitated the process of sending personal messages to drivers by developing an inbox panel. **React/Redux**
 - Improved city managers experience by redesigning the pricing panel. **React/Redux**

RESEARCH EXPERIENCES

- 2018 -present **Research Assistant at The Secure, Private Internet Research Group**
- Implemented TCP over UDP protocol for **MassBrowser**, a client to client censorship circumvention tool. **Nodejs**
- Developed UDP NAT punching feature for MassBrowser
- Modified the latest version of Firefox for MassBrowser to ease the installation process of the application.
- Under supervision of Prof. Amir Houmansadr*
- 2016-2017 **Research Assistant at Dependable and Real-Time Systems Lab**
- Implemented a real-time stress detector system for autism children using bluetooth low energy(BLE) to collect output of **galvanic skin response sensor** and **pulse sensor**
- Under supervision of Prof. Kargahi*
- 2015-2016 **Research Assistant at Intelligent Information Systems Lab**
- Created a news dataset by crawling top news websites such as **Yahoo! News, HuffingtonPost, CNN, New York Times, The Guardian, LA Times**
- Implemented news category detection by supervised classification methods based on **Category Classification and Topic Discovery of Japanese and English News Articles**
- Under supervision of Prof. Shakery*

HONORS AND AWARDS

- July 2019 **Jim Gray Scholarship in Computer Science**
University of Massachusetts Amherst
- Sept. 2017 **Best Undergraduate Thesis Project Award**
University of Tehran, Tehran, Iran