

Thiago Teixeira, Ph.D.

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SUMMARY STATEMENT

A motivated software engineer that loves building new things with a strong background in network protocols and wireless networks. Currently working on web development. Solid problem solving and troubleshooting skills.

EDUCATION

University of Massachusetts, Amherst, MA

Ph.D. in Electrical and Computer Engineering

Sep 2019

Unisinos University, Sao Leopoldo, Brazil

B.E. in Telecommunications Engineering

Aug 2013

Sungkyunkwan University, Suwon, South Korea

Visiting Student - Information and Communication Engineering

Jul 2013

RELEVANT COURSES

Computer Networks, Algorithms, Data Structures, Security Engineering, Trustworthy Computing, Probability and Random Processes, Statistical Inference, Cellular Networks, Business and Economics

SKILLS

Working Proficiency – TCP/IP, Python, ES6, C++, Java, SQL/NoSQL, HTML/CSS, REST-ful, Linux, Docker

Intermediate Knowledge – Flask/Express, Video Streaming, React

Basic Knowledge – Machine Learning, Kubernetes, Django

EXPERIENCE

Software Engineer in Test, Brighthouse Inc.

Sep 2019 - Present

- Developed automation tests for the Live streaming suite
- Actively participated in the development and implementation of new features and products.
- Advocating for the adoption of new and upcoming network protocols, such as HTTP/3 and BBR.

Software Engineer Intern, Brighthouse Inc.

Jan 2019 - Jun 2019

- QA and development tasks in a scrum environment utilizing a variety of tools in a highly scalable containerized platform. These tools include Testcafe, Jenkins, React, Handlebars, IaaS.

Graduate Researcher, University of Massachusetts Amherst

Apr 2013 - Aug 2019

- Information-Centric Networking in Wireless Networks
Designed a D2D communication scheme that uses ICN to offload traffic from cellular networks.
Reduced traffic in the backhaul network by up to 51.7% in simulated urban scenarios.
- Economics of Future Internet Architectures
Designed and developed an agent-based simulator that evaluates economic interactions on the Internet.
Proposed and evaluated open access networks with economic incentives via marketplaces.

SOME SIDE PROJECTS

- Code for Boston - Boston Info App (<https://github.com/codeforboston/voiceapp311>) – **Python, AWS/Alexa, Git** – Released
Alexa skill to bring Boston city services to smart speakers (*"Ask Boston Info for nearby food trucks"*)
- City Info Slack Bot - City services and utilities directly on Slack – **Python, Slack API, Heroku, Git**
- Networking blog deployed on Heroku (<https://tt-network-blog.herokuapp.com>) – **Bootstrap 4, Flask, Jinja2, , Git**
- Twitter Trending Topics Scraper – **Python, Twitter API**
- Web Scraping – **Python, Request, BeautifulSoup**
- Facebook Messenger Bot – **Facebook API, Flask, Ngrok**

AWARDS

- Science Without Borders - Brazilian Government (S.Korea 2012 and USA 2013)
- Grow with Google Developer Scholarship
- Student Travel Grant - Various IEEE and ACM conferences