

# Igibek Koishybayev

Researcher, PhD, Software Engineer, Security Engineer, Web Developer  
<https://www.linkedin.com/in/igibek/>

## WORK EXPERIENCE

### North Carolina State University - Raleigh, NC - Research Assistant

AUGUST 2017 - PRESENT

- Published "Mininode: Reducing the Attack Surface of Node.js Applications" in RAID'20
- Organized HackPack CTF in 2019, 2020, and 2021
- Managing research infrastructure using kubernetes
- Working on software-supply-chain and web security research

### Zerek Group - Almaty, Kazakhstan - Software Engineer

MAY 2013 - PRESENT

- Built in-house online dictionary which improved the efficiency of translators
- Automated translation of common documents which increased the number of processed orders
- Developed the corporate website and improved online presence by managing social network pages
- Implemented a web browser extension to transliterate the web pages into new Kazakh language alphabet

### International Information Technologies University - Almaty, Kazakhstan - Senior-Lecturer

JANUARY 2016 - AUGUST 2017

- Introduced for the first time "Cybersecurity" elective course in the department
- Advised students on how to build a startup in the "Innovation Lab"

### Boston University - Boston, MA - Teaching Assistant

SEPTEMBER 2015 - DECEMBER 2015

- Helped students to succeed in the "EC521: Cybersecurity" course

### International Information Technologies University - Almaty, Kazakhstan - Teaching Assistant

NOVEMBER 2012 - JANUARY 2013

- Helped the students to succeed "OO Programming with Java" course

## EDUCATION

### North Carolina State University - Raleigh, NC - Ph.D. in Computer Science

AUGUST 2017 - MAY 2022

### Boston University - Boston, MA - MS in Computer Engineering

AUGUST 2014 - JANUARY 2016

### International IT University - Almaty, Kazakhstan - BS in Information Systems

SEPTEMBER 2009 - JUNE 2013

## ACTIVE PROJECTS

### TheHack (<https://thehack.kz>), Founder

DECEMBER 2020 - PRESENT

- Created an educational website dedicated to cyber-security in kazakh language
- Developed two online courses called "Web-Hacking 0x01" and "Tor Network"
- Gained entrepreneurial experience by managing an online business

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## SKILLS

### Programming

- **Advanced:** HTML, JavaScript
- **Intermediate:** C#, Php, Python
- **Basic:** C++, C, Java

### Technology

Git, Docker, Kubernetes, Laravel, Node.js, ASP.Net Core, Ansible, Vagrant, NoSQL, SQL, VueJS, AWS, Digital Ocean, MS Azure

## CERTIFICATES

- Penetration Testing & Bug Bounty Hunting
- Crash Course on Python
- Vanilla JavaScript: Service Workers
- DevSecOps: Continuous Application Security
- Artificial Intelligence for Cybersecurity
- AWS for Developers: S3
- Learning Threat Modeling for Security Professionals
- Threat Modeling Spoofing in Depth
- Programming Foundation: Web Security
- Ethical Hacking with JavaScript
- JavaScript Security Essentials
- Learning OWASP Top 10
- Blockchain Basics

- Advisor to undergrad student's CTF (catch-the-flag) team

## **TeaTalks (<https://teatalks.me>), Co-founder**

JANUARY 2019 - PRESENT

- Created a platform where everyone can ask questions anonymously and receive a help from professional psychologists
- Helped more than 800 teenagers by advising and helping them to cope with their problems. There are real examples when our effort prevented teenagers suicide and helped to cope with their problems

## **Topuniver (<https://topuniver.com>), Founder**

AUGUST 2019 - PRESENT

- Developed a platform where students rate their universities based on quality of the teaching, relevancy of the knowledge, facilities and professorship with approximately 1000 visits per month