TEMIRZHAN YUSSUPOV

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EDUCATION

Nazarbayev University *Nur-Sultan, Kazakhstan*
B.S. in Computer Science, GPA: 3.67 / 4.00 *August 2018 — June 2022*

EXPERIENCE

Ethereum Foundation June 2020 — August 2020
Software Engineering Intern, zk-SUMMER *Remote*

· Worked with an Ethereum **blockchain** to create new transparent decentralized web applications which do not rely on a third party.
· Created smart contracts in Solidity for handling blockchain transactions and deployed them to Ropsten Ethereum network for testing.
· In a team of **4**, coded a **full-stack** quiz website using web3.js and React to educate people who are new to the Ethereum blockchain.
· Used Solidity, Web3.js, Ganache, Truffle, React, Docker, Django.

HackTheBox June 2020 — August 2020
Pentest Player, Security Researcher *Remote*

· Audited and **pentested** more than 25 vulnerable Windows & Linux boxes covering most common web and OS vulnerabilities.
· Exploited common misconfigurations leading to attacks such as CSRF, XSS, SQLi, RCE, etc.
· Coded own Python and Bash automation scripts for subdomain discovery, port scanning and constant target enumeration.
· Used own Digital Ocean remote server, **Python**, SSH tunnelling, Impacket, BurpSuite proxy, Docker, OpenVPN, Metasploit, nmap, Bash scripting.

Yandex LLC May 2019 — August 2019
Software Engineering Intern, Yandex.Efir *Moscow, Russia*

· Implemented an algorithm to efficiently cache paginated results from a server which **reduced** the overall number of AJAX requests **by ~10%**.
· Worked on the unit testing of core functionality and **increased** test coverage of the project **by ~7%**.
· Helped to integrate React, ES6 and Webpack into existing project written in JavaScript ES5.
· Used Git, React, Redux, Webpack, BEM Methodology, Server-Side Rendering, Node.js.

nFactorial Incubator Boot Camp, ZeroToOneLabs LLC June 2018 — August 2018
React Native Participant *Almaty, Kazakhstan*

· Took part in the coding boot camp and implemented **#1 cross-platform mobile app** of the week in Music & Audio category of Kazakhstan Play Market.
· Integrated Firebase Realtime Database for listening for value events and saving data as transactions for preventing race conditions.
· Used React Native, Node.js, Firebase, React Context API, GraphQL.

PROJECTS

Laddy - Full-stack website   laddy.app

- Created from scratch an open-source web-app with more than **500 users** that allows programmers to practice their problem-solving skills.
- Went through all stages of product iteration starting from design and ending with deployment to the remote server.
- Received **72 stars** on Github and got **140 upvotes** in r/reactjs subreddit.
- Used TypeScript, GraphQL, Node.js, nginx, React.js, PostgreSQL, TypeGraphQL.

Indigo - Telegram bot   t.me/nuhelper_bot

- Developed an open-source Telegram bot with more than **800 users** that automatically notifies students about upcoming lectures, new grades and homework.
- **Significantly** saved the time of students by decreasing the number of unnecessary website visits.
- Used Python, MongoDB, Pipenv, Telegram Bot API, BeautifulSoup and Requests library.

NU Open - Single Page Application   nuopen.kz

- Created a blazingly fast static SPA using **Gatsby.js** to let people register for an ICPC event organized by our student team.
- Coded **REST API** letting the team securely interact with Google Spreadsheet to manage all event participants.
- Used Netlify, Gatsby.js, Express, Google API, CSS-in-JS.

Bug Hunting - Proxy server   github.com/ironsoul0/gamee-hack

- Discovered and **reported** the **vulnerability** of the online game platform (gamee.com) that allowed to get the maximal score in any game.
- Implemented a proxy server allowing to modify the body of HTTP requests for score spoofing.
- Used Python, Requests and mitmproxy library.

ACHIEVEMENTS / ACM RECOGNITIONS

- **Google STEP Internship, Zurich** - Offer was cancelled due to COVID-19 (2020)
- **International Hackathon "Digital Commonwealth"** - 1 place, 250.000 KZT prize (2020)
- **National Student Hackathon "Social Hack"** - 1 place, 300.000 KZT prize (2020)
- **ACM ICPC Kazakhstan Regionals** - Placed in top 12% out of 150+ teams (2019)
- **International Eurasian Olympiad in Informatics** - Silver medal (2018)
- **National Olympiad in Informatics (Kazakhstan)** - 2 Silver medals (2017, 2018)
- **International Zhautykov Olympiad in Informatics** - Bronze medal (2018)

PROGRAMMING SKILLS

Languages	C++, JavaScript, Python, Go, Java
Technologies	Linux, Git, REST, Bash, React, Node.js, Docker, GraphQL
Databases	MongoDB, MySQL, PostgreSQL, Redis
Coursework	Algorithms & Data Structures, Programming Languages
	Formal Languages, Computer Systems & Organization