

# Almas-Kylysh Maksotov

github.com/Pupye, www.linkedin.com/in/almasmaksotov, almas.maksotov.aa@gmail.com

## EDUCATION

Nazarbayev University, Nur-Sultan, Kazakhstan

August 2017 - June 2021 (Expected)

Bachelor of Computer Science

Cumulative GPA: 3.65/4.00

**Relevant Coursework:** Algorithms, Computer Systems and Organization, Database Systems, Operating Systems, Programming Languages, Performance and Data Structures, Software Engineering, Computer Networks

**Honors/Awards:** Dean's List Fall 2018, Dean's List Spring 2019

## PROFESSIONAL EXPERIENCE

Dar, Remote

July 2020 – Present

*Software Developer Intern*

- Worked with microservices orchestration tool (Zeebe) and learned to operate with BPMN
- Understood subtle details of achieving data consistency among several services each with independent database
- Learned about the architecture of large-scale backend systems that work with sensitive transactions
- Learned the principles of secure authority validation and difference in purpose of RSA and HMAC signing algorithms
- Tech Stack: Scala, Akka, RabbitMQ, Zeebe, Docker

Dolla, Nur-Sultan, Kazakhstan

December 2019 – June 2020

*Software Engineer*

- Proposed and implemented project layout that improved readability and organized codebase
- Developed a local testing pipeline using Docker, Jest and Bash that reduced the load and saved expenses on automation server
- Built an authorization system which required only phone numbers that led to improvement of overall user experience
- Implemented token-based authentication using json web tokens that decoupled services
- Integrated redis to speed up (by 40%) frequent retrievals of verification codes
- Tech Stack: Node.js, Express, MongoDB, Docker, Redis

## PROJECTS

**Game of life** *view code: <https://bit.ly/2Y5c8oh> view application: <https://bit.ly/3kPx9wT>*

- Implemented the logic and structure of the game using Javascript and client-side library p5.js
- Cooperated with partner on improving UI
- Learned the basic of web animation techniques

**Camera Load Distributor** *view code: <https://bit.ly/3fZlvLg>*

- Implemented load balancer that uses round robin strategy using C
- Worked with multiple processes that shared virtual memory
- Gained in-depth understanding of low level realizations of multithreading, multiprocessing, and synchronizations techniques

**Course Project: Railway Ticket Booking System model** *view code: <https://bit.ly/31QY6YE>*

- Worked in a team of 5 people under scrum framework
- Got acquainted with writing user stories and constructing user story mapping
- Implemented backend functionality using Java and Spring framework

## LEADERSHIP & AFFILIATIONS

ACM Student Chapter at Nazarbayev University, Nur-Sultan, Kazakhstan

August 2019 – Present

*Member*

- Instructor volunteer at Tech Camp for girls "DigiGirlz Kazakhstan 2019" sponsored by Microsoft
- Participated in organization of coding competition for females "codeW" sponsored by Facebook

Children Development Foundation at Nazarbayev University, Nur-Sultan, Kazakhstan

December 2018 – May 2019

*Mentor*

- Assisted in tutoring a classroom of 10 socially vulnerable high school students to their graduation exam

## SKILLS & INTERESTS

**Dev Tools:** Git, Express, Spring, Akka, Zeebe, Docker

**Database:** MySQL, MongoDB, Redis

**Programming:** Golang, Scala, JavaScript, Python, C++, C