

Yernur Nursultanov

· SOFTWARE ENGINEER ·

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*Passionate about secure software development, high-performance system architecture, and full-stack engineering.
Let's connect and build the future together!*

Experience

Ford Motor Company, Ltd

SOFTWARE DEVELOPER SECURITY

Waterloo, Canada

Mar.2022 to Dec. 2024

- Designed and implemented high-performance security components at the service level using C++.
- Collaborated with cross-functional teams to define and optimize software architecture and specifications.
- Conducted rigorous code reviews, increasing test coverage to 99% + and improving overall software reliability..
- Developed automated debugging tools, enhancing bug detection and accelerating release cycles.

First Mile Technologies

FULL STACK DEVELOPER

Toronto, Canada

Jun. 2021 - Aug.2021

- Built advanced C++ analytics tools for processing high-end production camera data.
- Integrated HD-SDI Video Processor and capture card drivers for seamless hardware-software interaction.
- Developed comprehensive integration tests, ensuring high-quality Agile development cycles.

Seytech

FULL STACK DEVELOPER

Chicago, US

Jan. 2019 - May 2021

- Designed scalable RESTful APIs using Nest.js and Express.js.
- Increased application performance by 35% through optimized pagination techniques.
- Improved development productivity by 25% by implementing Material UI components.
- Spearheaded the transition to TypeScript, reducing runtime errors and enhancing maintainability.
- Implemented advanced frontend optimizations to improve user experience and engagement.

BlackBerry QNX

CAMERA RESEARCH SOFTWARE ENGINEER

Ottawa, Canada

Jan. 2017 - Apr. 2017

- Engineered new product features to advance the ADAS 2.0 sensor fusion framework.
- Enhanced IP/GigE Vision camera services, optimizing real-time image processing.
- Resolved software challenges using C/C++, ensuring POSIX compatibility.
- Improved buffer management and image post-processing efficiency through timestamp synchronization.
- Developed real-time LiDAR data tuning mechanisms for optimized performance.
- Automated testing pipelines using Bash scripting, reducing test overhead and execution time.

Latest Projects

CHOMP - Diet Monitoring

- Designed and built a website that allows monitoring nutritional intake
- Working on porting the simulator to a web app using Django and Bootstrap's CSS for the frontend part
- Implemented budgeting feature for meal planning and eating out using Python
- Designed and implemented database architecture for product nutrients in PostgreSQL

ProPlanner - Choice Sorter app

- App improves users productivity by removing the component of decision making
- Developed with Golang and Gin-Gonic http framework for routing, GORM for interacting with Postges DB
- Developed frontend using NodeJs with Bootstrap's CSS
- Future Direction: Implementation of browser extension

Post Office System Simulator

- Made a Java Swing driven application that simulates post office systems
- The application uses Model View Controller design pattern to interact between the inner parts or views
- Simulator works by injecting a command, a script or an executable, that loads list of action into the system
- Worked on design a system for study of advanced scheduling techniques for delivering logistics in Pandemic environment

Education

SFU(Simon Fraser University)

B.S. IN SOFTWARE SYSTEM

Sep. 2014 - Dec. 2018

Skills

- Algorithms
- Compilers
- Data Analysis
- Cryptography
- Embedded Systems
- C/C++, Java, Python
- AFL-Fuzz, GDB, DLT
- Multimedia
- Probability Theory
- Web Information System