

HIEN NGUYEN

SOFTWARE ENGINEER

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Helsinki, FI



EXPERIENCE

Full stack developer

Elisa

11/2019 Helsinki, FI

Elisa Industrial IoT | Smart Supply Chain

- JavaSpring boot) | Azure SQL, Devops pipeline, Service Bus, Container Instance group) | Google Protocol Buffer | Microservice architecture | JSReact, Redux)
- Planning for patent with topic about streaming Google Protocol Buffer network data in AI search graph algorithms within multithread environment.

IT consultant | Software developer

Academic Work | Booky.fi Oy

09/2017 - 09/2019 Helsinki, FI

IT consultant for clients: Cataloging system | Ecommerce projects | Packing automation machine project

- PHP, JS, MySQL/MariaDB, PostgreSQL, Ubuntu, Centos7, DevOps

Full stack developer

LiquidBlox

08/2017 - 09/2017 Espoo, FI

Back end bug fixing | Front end new features for Start-up product

- Node.js, Angular.js, MongoDB, AWS, Jenkins

PROJECTS

Ongoing projects

2020 localhost

On going projects

- Develop a simple Java compiler that has semantic validation, lexical analysis, parse source to abstract syntax tree, compiler optimization
- A program that benchmark TCP network socket connection in distributed system
- A simple helper library support the Kotlin function call from C/C++ program

SUMMARY

Software Engineer with full stack experience in back end system, integration, software architectures, optimization, databases, distributed system, system design, datastructures and algorithms.

EDUCATION

Master of
Computer
Science (self
taught)

Online

N.A / N.A

Harvard | MIT | Stanford

2019

ACHIEVEMENTS



Google Cloud Platform certificat

1 day training certification from Google Cloud



StupidHack x Junction

"SayBark" - winner of one sector



Certification of Robodnic competition 2013

Robot competition for high school student teams



Mercuri Urval Cognitive Ability Tests Top 4%

SAP Cognitive Ability Test

PROJECTS

Junction 2019 HealthTech challenge project 48hours

📅 2019 📍 Junction

Dashboard analyze the performance of user emotions based on history of diaries kept by users, current emotions of user saved on the app

- Chat bot - give recommendations based on user text input emotions
- Diary - keep a history of daily emotions by speech recognition.
- User take a photo the app recognize the main emotions based on facial recognition and give recommendation what user should do to improve better emotions
- connect to hospitals/ therapists and match the user health problems with suitable specialist.
- Data analyst and Machine learning analysis (Emotions and recommendation system) | Java, JS, MySQL, GCP, Docker, Google Vision API, Camera, Speech recognition, Chatbot Dialogflow API

Flight booking

📅 2018 📍 Helsinki, FI

Backend services & integration with microservice architectures (got some stars and forks on Github)

- Spring framework | MQTT RabbitMQ, Kafka) | Redis | ElasticSearch | Docker | Database : MySQL, PostgreSQL, MongoDB, Cassandra | Bash scripting

Desktop application | Mobile application

📅 2018 📍 localhost

Develop various software in desktop & mobile platform

- Facial recognition desktop application JavaFX, OpenCV, Tesseract OCR, LIBSVM
- Meetup clone hybrid mobile application

Online shopping services | Enterprise integration project

📅 2019 📍 localhost

Utilize AWS services for shopping system | Integrate enterprise backend services

- Serverless architecture (API gateway, Lambda, SQS | Crawl service with Batch request run on EC2 | AWS Lex bot service | Upload object service S3, AWS ElasticSearch) - Logging, Monitor
- Real time chat service | Big data collections | Spark streaming web logs | CD/CI (Minikube - Kubernetes) | Analyse performance of Spark vs. Hadoop with collections of public datasets | Spin docker container for integration test

SKILLS

Java	Spring framework	SQL
NoSQL	AWS/GCP/Azure	DevOps
CD/CI	Docker	Kafka
Test	Hibernate/JPA	JS
	MQTT	
Distributed system		Concurrency
Scalability		Open source
Data structure		Algorithms
Basic ML/AI		System architecture