Nguyen Dinh Dang Khoa

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I am a sophomore in Mathematics, majoring in Algebra. Passionate about abstract maths, theoretical computer science, and cryptography. I have some experiences in software development, though I'm planning doing research in the future.

Education

University of Science - VNUHCM   **Sept 2020 – Present**

Bachelor in Mathematics, majoring in Algebra.   *Ho Chi Minh city - Vietnam*

GPA: 8.6/10.

Experience

Seedcom   **Oct 2021 – Present**

Fullstack Developer of Coretech team   *Ho Chi Minh city – Vietnam*

- Developed and maintain an analytics system based on Superset – An open source project of Apache.
- Technologies: Python, React.js, PostgreSQL, MySQL.

200Lab   **Aug 2020 – Jan 2021**

Backend Developer   *Ho Chi Minh city – Vietnam*

- Developed and design some small CRUD modules on top of microservices architecture for a livestream app.
- Technologies: Go, MySQL.

Side Projects

Justkhoa.me – Personal blog   **July 2021**

- A nice-looking personal blog built from scratch.
- Support markdown, latex, auto generate TOC, comment section,...
- Mostly write about my understandings in Math and Computer Science.
- Technologies: Go, Nuxt.js, MySQL.

Tutorbot – Online matching tutor app   **March 2020**

- A Facebook Messenger Chatbot that connects students and tutors from different places together based on their age and learning purposes.
- Attracted hundreds of users within first-month operation.
- Technologies: Node.js, MongoDB, Messenger Platform.

Bitexam – Exam storage system   **November 2018**

- A system built on top of Ethereum smart contract, aiming at large-scale exams which need high reliability.
- Able to store examinees' tests securely, prevent some alternation factors.
- Technologies: Solidity, Web3.js, Electron.js, Vue.js.

Skills

Mathematics:
- Mathematical thinking of undergraduate level.
- Have a concrete understanding of some fundamental subjects such as Linear Algebra, Calculus, Analysis, Discrete Math.
- Familiar with abstract spaces such as metric space, Hilbert space, topological space,...
- Familiar with group, ring, field through Modern Algebra, Field and Galois Theory courses.
- Able to use some math tools: Matlab, Mathematica, Julia, Coq.

Programming:
- **Familiar with:** Go, Python, Node.js, Vue.js, MySQL, Git, Blockchain, Matlab, Latex.
- **Know**/**Used:** Docker, React.js, Julia, MongoDB, PostgreSQL.
- **Hobby**/**Interested in:** Rust, Haskell.

Language:
- **Vietnamese:** Mother tongue.
- **English:** Fluent.
- **French:** Hobby.

Achievements

Ranked Third in Informatics at "HCMC Excellent Student Competition".	**2019 – 2020**
Bronze Medal in Informatics at "HCMC April Olympic Competition".	**2018 – 2019**
Gold Medal in Informatics at "HCMC April Olympic Competition".	**2017 – 2018**