

# Benjamin Konz

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## EDUCATION

### UNIVERSITY OF OMAHA

BS IN COMPUTER SCIENCE

CONCENTRATION IN INFORMATION  
ASSURANCE

May 2019 | Omaha, NE

Cum. GPA: 3.77

### TU DELFT

EXCHANGE STUDENT

Spring 2018 | Delft, Netherlands

## LINKS

Personal Site: [benkonz.github.io](https://benkonz.github.io)

Github:// [benkonz](#)

Gitlab:// [benkonz](#)

LinkedIn:// [ben-konz](#)

## SKILLS

Proficient:

Scala • OCaml • Rust

Prior Experience:

TypeScript • JavaScript • Java

Familiar:

Coq • MySQL

## EXPERIENCE

### IMPACT | DATA ENGINEER

March 2019 - Current | New York, NY

- Forensiq Ad Fraud Platform team designed to store, enrich, and filter Petabytes of data
- Contributed by further enriching data through User Agent, creating an App Store Scraper, and creating tools for enhanced data reliability
- Implemented enrichment scheduling via a graph algorithm for better control of dependencies

### NORTHROP GRUMMAN | SOFTWARE ENGINEERING INTERN

Nov 2017 - March 2019 | Omaha, NE

- Implemented Docker as a core deployment strategy
- Wrote Unit and Integration tests, using JUnit, Mockito, and Java Spring, for many of the REST endpoints

### HEALTH INFORMATICS LAB AT THE UNIVERSITY OF OMAHA

STUDENT SOFTWARE DEVELOPER

Dec 2015 - May 2017 | Omaha, NE

- Created an Android application to help Mid-West Hospital Labs securely upload microscopic images of pathogens, deployed at labs in the midwest

### ASSOCIATION FOR COMPUTING MACHINERY (ACM) STUDENT

CHAPTER AT UNO | CLUB PRESIDENT

Member Dec 2016 - Dec 2017, President Aug 2018 - May 2019 | Omaha, NE

- Organized technical talks by UNO faculty and short Lightning Talks by students
- Presented workshops on many topics, such as professional development, Arduino and RoboCode
- Hosted programming competitions for High-School and college students

## PROJECTS

### JEROO <https://jeroo.org/beta>

- Programming language learning tool for students and teachers that allows students to write in a simple object oriented language to control animals around a virtual game board
- Created a compiler framework for a custom bytecode that the runtime interprets
- Uses of OCaml, TypeScript, and Angular
- Used by high school teachers throughout America to bridge the gap between visual programming languages and traditional programming

### GAMEBOY EMULATOR

[https://github.com/benkonz/gameboy\\_emulator](https://github.com/benkonz/gameboy_emulator)

- Rust code designed to emulate the hardware of the original GameBoy through low level hardware emulation, can be run as a desktop application and in a web browser through Web Assembly
- Able to efficiently emulate the GameBoy, rendering frames at 60 frames per second
- Supports multiple games, such as Tetris, Pokemon, Mario, and Zelda
- live demo: <https://benkonz.github.io/assets/emulator>