

NOBLE WULFFRAAT

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EDUCATION

University of Illinois at Urbana-Champaign

Graduated: Aug 2023

Major: Mathematics

Minor: Computer Science

WORK EXPERIENCE

Walmart - Global Tech

Jun 2021 - Aug 2021

Software Engineer Intern

- Developed a proof of concept for a Bluetooth Low Energy (BLE) point-of-sale pairing system to reduce friction in the Walmart Pay checkout experience on Android devices.
- Developed solutions in Java and Kotlin for Android API limitations in BLE-enabled applications.
- Extensively tested embedded device configurations for optimal BLE signal reception.
- Contributed enhancements to the Walmart Pay backend in Typescript.

Illinois Geometry Lab

Aug 2020 - May 2021

Student Researcher

- Worked with team on library development for the Lean programming language and proof assistant.
- Focused on developing a library for encoding proofs in the field of model theory.

UIUC Undergrad. Research in Engineering (PURE Program)

Sep 2019 - Dec 2019

Student Researcher

- Worked on development of siamese neural networks for text-independent speaker identification and used transfer learning approaches to apply the model to speaker diarization tasks.
- Implemented pre-existing statistical models for comparison.
- Primarily developed models using PyTorch and Python data science libraries.

PROJECTS

Optiprof - Course Recommendation Tool

Collaborated with a small team on the development of a course recommendation tool which combines historical grade data, professor ratings, and user-given constraints to allow students to generate highly optimized course schedules. Primarily contributed a Python web-scraper for gathering data and the Django backend.

TECHNICAL SKILLS

Languages

Python, Java, Kotlin, Javascript, Typescript, SQL, HTML, CSS, Lean

Technologies

Django, PyTorch, Pandas, Jest, Node.js, Android, Git, PostgreSQL, MongoDB

HIGHLIGHTED COURSEWORK

Computer Science

[CS 411] Database Systems, [CS 225] Data Structures,
[CS 374] Algorithms and Models of Computation,
[CS 233] Computer Architecture, [CS 357] Numerical Methods I

Mathematics

[MATH 416/415] Abstract/Applied Linear Algebra,
[MATH 241] Multivariable Calc, [MATH 213] Discrete Structures
[STAT 400] Statistics and Probability I, [STAT 420] Applied Statistics
[MATH 482] Linear Programming and Optimization