

# Gabriele Scotto di Vettimo

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## EDUCATION

### University of Illinois at Urbana-Champaign

Aug 2022 - May 2026

Bachelor of Science in Computer Science

Urbana, IL

- Minor in Economics.
  - Completed Coursework: Algorithms, Data Structures, Computer Architecture, Programming Langs & Compilers.
  - Skills: HTML5, CSS3, JavaScript, TypeScript, NodeJS, React, Next.js, C++, Python, Go, SQL, MongoDB, AWS.
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## EXPERIENCE

### Oracle

May 2024 - Aug 2024

*Software Engineer Intern*

Redwood City, CA

- Independently developed two tools for throttler services in Oracle Cloud Infrastructure (OCI).
- Used Go and gRPC to make a load-testing tool which emulates web servers, fetches metrics, and facilitates detailed performance analysis. Created a separate benchmark tool to compare results of two different tests.
- Engineered methods to simulate high-load scenarios with thousands of concurrent threads and requests. Optimized for storage (100 million requests stored in under 2 GB) by implementing streaming binary data of millions of total requests to result files.
- Analyzed critical metrics, including latency and bandwidth, to enhance service reliability and support internal teams in backend optimization efforts.

### GrassGo

Jun 2023 - Jul 2023

*Full-Stack Developer*

Chicago, IL

- Made create, read, update, and delete operations using Mongoose library for 13 data schemas. Started and maintained MongoDB database.
- Protected user data by encrypting credit card information and hashing passwords.
- Provided consulting advice for website UI design and backend structure.
- Consulted on UI/UX design and backend architecture, offering strategic recommendations to improve user experience and system efficiency.

### Nonprofit Junior Robotics

Dec 2020 - Sep 2022

*Full-Stack Developer*

San Francisco, CA

- Planned and built the entire Junior Robotics website, including coding the web pages, designing a logo, and choosing an appropriate color palette. Wrote and edited 5 blog posts.
  - Produced and taught a comprehensive 5-day Introduction to Web Development course. Reached out to over 100 middle schools in California through email. Taught at 6 different low-income and underrepresented middle school classes through virtual lessons.
  - Boosted engagement by 65% through content creation on 3 social media accounts (Instagram, Twitter, Facebook), showcasing students' final projects and making announcements.
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## PROJECTS

**BuyIllini:** Built a scalable online marketplace for 55,000+ Illinois students. Constructed custom account authentication and email verification. Included an admin dashboard to monitor posts and engineered a report system.

**Pola Video:** React native app to stitch, edit, and reorder video clips to create an elegant montage.

**UIUC Bus Tracker:** 2,000 bus stops. Displays nearby stops and departures. Track routes and plan trips.

**Green Thumb Network:** Created app to provide gardening information on over 40 crops, such as fertilizer type, recommended sunlight, and soil pH levels. User-tailored with current local weather, local sunlight info, and a to-do list. Generated 50+ downloads within the first 3 days after its release.