

BERNAT FOGARASI

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Education

- University College Dublin
Bachelor of Science - Mathematics major
Sept 2021 - May 2025
- Coursera
Data Structures by University of California, San Diego

Skills

- Languages: Python, Javascript, Typescript, HTML/CSS, C++, R, SQL
- Technologies: React.js, Next.js, Node.js, Express, Django, Flask, MySQL, NoSQL, websockets, Git

Projects

TeamListener

teamlistener.com

A music/video player that combines YouTube, Spotify and SoundCloud by allowing users to create mixed playlists. Enables listeners to join rooms, where actions are synchronized.

- Increased room synchronization speed 5x, by replacing http requests with a socket server.
- Developed a queue management system, allowing reliable playlist editing.
- Added personalization, searching and room joining functionality, by building a REST API in Express.
- Improved ease of access, and security by implementing 3 authentication methods.

SigmaVote

sigma.vote

Polls and group work contribution analysis by anonymous voting.

- Created an emailing system used to reach participants when a poll is created.
- Familiarized institutions with the app, leading to the adoption of SigmaVote in 2 universities and a secondary school.
- Facilitated 1100+ votes in the first month.

BugPen

bugpen.com

Bug tracking and project management website.

- Enabled managers to recreate their team's structure in the app by authorizing each project member with one of 4 possible permission levels.
- Designed a navigation system, and randomly generated URLs, resulting in better user experience, by utilizing styled components and React.js routing.

Portfolio

bernatfogarasi.com

- Created visualizations of personal projects in React.js, D3.js and Three.js.

Leadership

- Led a student mathematics research team of 7 at university, produced a successful academic report and presented results in front of class.
- Partitioned and assigned tasks to teammates as a team leader in 2 school mathematics competitions, placing 1st out of 6-10 teams on both occasions in teams of 5.
- Placed 2nd, 2nd and then 1st in consecutive years out of 20+ teams in physics paper writing competitions in teams of 3.