

## Emil Kovacev

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### EDUCATION

**University at Buffalo, The State University of New York** August 2019 - May 2023  
Bachelor of Science in Computer Science (ABET-accredited), **GPA: 3.96/4.0**, University Honors College  
Minor in Mandarin Chinese Language, Minor GPA: 4.0/4.0  
Relevant Coursework: Algorithms and Complexity, Data Structures, Systems Programming, Computer Organization, Object-Oriented Programming, Linear Algebra, and Discrete Math  
Awards and Honors: Grace W. Capen Academic Award, Dean's List 4 semesters

### SKILLS

**Languages:** Python, C, Scala, Java, R, Bash, Shell Script  
**Full-Stack Technologies:** ReactJS, Javascript/NodeJS, Express, Django, HTML/CSS, Bootstrap, Sass, Docker  
**Data Analytics:** SQL, PostgreSQL, MongoDB  
**Tools:** Linux, VSCode, Git/GitHub, Jupyter, Microsoft Excel, WordPress, Blender, Adobe Creative Cloud

### WORK EXPERIENCE

**University at Buffalo**  
Research Assistant, CACTI Lab September 2021 – Present

- Collected and analyzed research material in preparation for a formal analysis of the MLS protocol
- Prepared weekly presentations detailing research outcomes and MLS verification progress

Teaching Assistant, Systems Programming Coursework August 2021 – Present

- Assisted students in translating fundamental systems concepts into code for assignments and labs
- Enforced key systems programming concepts in review sessions presented during office hours
- Communicated with the professor and other teaching assistants to improve course material

Full Stack Developer, UB Autograder - automatic code grading web application May 2021 – Present

- Developed an API with **Express** and **Typescript** to enhance scalability and reduce development time by 20%
- Designed a client with **ReactJS** and **Sass** using the API, to allow students to view and organize courses

**Claims Conference**  
IT Intern June 2021 – August 2021

- Developed a data tool with **R/Shiny** and **HTML/CSS** to cut query response times by 50%
- Constructed over a dozen reusable **SQL** queries to fetch data on holocaust survivors
- Generated documentation on both an SQL database schema and data tool

### LEADERSHIP EXPERIENCE

**President**, MakeOpenSource (makeopensource.org) June 2021 – Present

- Founded MakeOpenSource - University at Buffalo's open-source programming club with over 280 members
- Created project frameworks to kickstart open-source development projects
- Constructed a **Django** web application and API for makeopensource.org to inform over 1,300 unique visitors
- Deployed two discord bots to interact with a web API and update latest announcements

### PROJECTS

**Founder**, RateMyFrogs.com - image-rating web application June 2021 – Present

- Created a **Django** web application to store hundreds of monthly ratings in a **PostgreSQL** database
- Minimized server costs by 37% per year by hosting on a Raspberry Pi with **Ubuntu** using **Nginx**
- Designed a responsive front-end interface with **HTML**, **CSS**, and **JavaScript**

**Developer Lead**, Campfire - homework submission package hackathon project October 2020

- Built a command-line tool in **Python** for submitting code to decrease homework upload times
- Improved pre-submission checks to prevent incorrect files from being submitted