Michael Zappa

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EDUCATION

Khoury College of Computer Sciences, Northeastern University — Boston, MA
Bachelor of Science in Computer Science, Minor in Linguistics — *Aug. 2018 – May 2023*

- GPA: 3.9/4.0, Dean's List all semesters, Honors Program.
- Relevant Coursework: Computer Systems, Networks and Distributed Systems, Systems Security, Object Oriented Design, Algorithms and Data Structures, Foundations of Cybersecurity, Programming Languages.
- Attended Dialogue of Civilization in the North of Ireland focused on the role of storytelling in community activism, conflict resolution, and conflicted identities.

EXPERIENCE

Software Developer Co-Op | *Ruby on Rails, Oracle SQL* — July 2021 – January 2022
Smartleaf — *Boston, MA*

- Specified, implemented, and tested API endpoints requested by clients in the wealth management industry.
- Patched sequence bug in Ruby database adapter when importing large batches of rows.
- Conducted security audit and corresponding upgrades of Ruby and JavaScript dependencies.
- Engaged in cross-functional effort to fix third-party data transfer in production.
- Prepared application for transition from Oracle SQL to PostgreSQL.
- Created automated performance and A/B tests of application across different environments and databases.
- Coordinated release pipeline between developer and business teams.
- Fulfilled client deliverables ahead of schedule.
- Participated in hiring process for new co-ops and permanent team members.
- Onboarded new team members at multiple levels of seniority.

PROJECTS

Husky Hunt Helper | *TypeScript, Node.js, SQLite, React Native* — April 2020 – August 2020

- Led back-end and mobile development for a team creating a web/mobile app to facilitate the scavenger hunt put on by Northeastern University.
- Designed a web server to manage the uploading, categorizing, and reading of groups, paths, and clues.
- Developed mobile app to give directions to clues around Boston and upload photos to the server.

Fish Card Game(s) | *Node.js, React, GraphQL, Elixir, Phoenix, PostgreSQL* — April 2020 – August 2020

- Created web apps to play "Fish" card game with friends remotely during COVID-19 pandemic.
- Implemented multiple REST web servers to process and store data using Express.js, GraphQL, and Phoenix.
- Developed front-end for REST servers using React.
- Utilized Phoenix LiveView to create an application with real-time view updates using built-in websockets.

TECHNICAL SKILLS

Languages: Ruby, Java, Node.js, Python, Rust, Elixir, C/C++, SQL
Frameworks: Rails, React, Swing, Phoenix
Developer Tools: Emacs, Git, Jira, JetBrains
OS: Linux, MacOS, Windows

INTERESTS

- Computing: Reproducible packages and systems, functional and natural language programming, formal verification.
- Other: Linguistics and foreign languages, high fantasy novels, geography, rugby, motorsport.