

# Connor Bernard

Personal Website: <https://www.connorbernard.dev/>  
Linkedin: <https://www.linkedin.com/in/connorbernard/>  
Github: <https://github.com/Connor-Bernard>

Email : [connorbernard@berkeley.edu](mailto:connorbernard@berkeley.edu)

Mobile : +1-650-714-4346

## EDUCATION

---

- **University of California, Berkeley** Berkeley, CA  
*Bachelor of Computer Science; GPA: 3.93* *Expected May 2024*  
*Courses: Data Structures (CS61B), Efficient Algorithms and Intractable Problems (CS170), Machine Structures (CS61C), Intro to Databases (CS186), Computer Security (CS161), Web Design (CS198), Discrete Mathematics and Probability (CS70)*

## TECHNICAL SKILLS

---

- **Languages:** Python, Java, C, HTML, CSS, JavaScript, PHP, Objective-C, SQL, Unix scripting, Lisp, LaTeX, Markdown
- **Tools:** GIT, JIRA, XCode, Postman, phpMyAdmin, MySQL, Linux, Github, BitBucket, MAMP, Vim, Figma, WordPress
- **Soft Skills:** Communication, Self-Awareness, Determination, Time Management, Teamwork, Adaptability, Creativity

## EXPERIENCE

---

- **Emotewell Inc.** Berkeley, CA  
*Software Engineering Tech Lead* *May 2022 - Present*
  - **Team Lead:** Mentored and managed a team of junior developers working on back-end, web-development, and mobile-development through bi-weekly team line-ups and weekly individual meetings to strategize agile approaches to outstanding tickets and pull requests.
  - **REST API Development:** Developed a company-wide REST API using Postman and Cloudflare DNS with endpoints for mobile In-App-Purchase verification, server-side user identification and validation, natural language processing (NLP) and Machine Learning (ML), and front-end platform customization.
  - **Website and Mobile Optimization:** Decreased website load speed by over 53% and increased maximum server load by over 35% by implementing caching and compression techniques to fit complex computational models generated through load time analysis and offensive load testing.
  - **Mobile App Development:** Used Xcode and Objective-C to develop and push the first version of the Emotewell App with full website functionality in under two weeks.
- **Emotewell Inc.** Berkeley, CA  
*Software Engineering Intern* *May 2021 - May 2022*
  - **Website Redesign:** Used CSS, HTML, JS, PHP, and Figma to implement and handle a full scale website redesign event.
  - **SEO Optimization:** Applied statistical modeling and advanced regression techniques to increase SEO score by 30%.
  - **Website Asset Optimization:** Implemented loading algorithms such as Lazy-Load, asynchronous and delayed JavaScript loading, and image compression.
- **Computer Science Tutor** San Mateo, CA | Berkeley, CA  
*AP CS, CS61A, CS61B, CS61C, CS170* *May 2019 - Present*
  - **Tutor and Review Session Host:** Tutored peers in one-on-one environments and led several full-class exam-prep sessions on advanced algorithms, data structures, and complex run-time analysis as well as co-taught several classes.

## ACADEMIC PROJECTS

---

- **Streamlined Git-style VCS:** Used Java to create a version-control system that mimics some of the features of Git including active directory moderation, file hashing, merge conflict handling, and remote repository interactions.
- **Enigma Machine:** Applied advanced applications of data structures to redesign the Enigma machine used in WWII with fully functional file encryption and decryption algorithms.
- **Scheme Interpreter:** Used the functional programming language Scheme (a Lisp dialect) in conjunction with Python to write a pseudo-self interpreter and Read-Eval-Print Loop (REPL) environment for Scheme.
- **Italian Restaurant Website Redesign:** Used HTML, CSS, JS, and PHP to create an updated website for a popular restaurant in Berkeley using data structures, prototype design techniques, and HTTP requests to dynamically populate menu items.
- **Snake (Game):** Used C to recreate the popular game Snake with added functionality for parallel snake instances and a fully operational command-line UI.

## CLUBS AND AFFILIATIONS

---

- The International Honor Society for the Computing Sciences (UPE): Members selected from the top 20% of CS students.
- Computer Science Undergraduate Association (CSUA)
- Institute of Electrical and Electronics Engineers (IEEE)
- National Society for Leadership and Success (NSLS)