xurtel.github.io
linkedin.com/in/matthewngor
github.com/Xurtel

M ATTHEW N GOR

Hayward, CA
(510) 828-3527
matthewngor@gmail.com

EDUCATION

Santa Cruz, CA   **University of California, Santa Cruz**   **Sept 2017 – June 2021**
- **Major:** Computer Science B.S. with Honors (Major GPA: 3.68)
- **Undergrad. Coursework:** Principles of Computer Systems Design, Intro. to Computer Networks, Calculus III, Web Applications, Computer Security, Distributed Systems, Database Systems, Intro. to Software Engineering

EMPLOYMENT

Software Developer, Intern   **Zoho Corporation**   **Summer 2018**
- Optimized Zoho CRM software by developing extensions in the company's scripting language, Deluge.
- Powered extensions by: adding third-party services through REST APIs, JSON manipulation, and OAuth 2.0.
- Built app that syncs data between Zoho CRM and Wrike (project management software / SaaS product) bidirectionally. Performs all CRUD functions. JavaScript, HTML, CSS, Deluge.

Web & Communications Assistant   **UC Observatories**   **Sept 2019 – Sept 2020**
- Built the new UCO website using Drupal. Later migrated to WordPress.
- Updated UC Observatories and Lick Observatory websites with HTML, CSS.

SOFTWARE PROJECTS

- **Distributed Key-Value Store**
  - Developed a scalable RESTful multi-site key-value store that stores and distributes data dynamically across multiple instances/nodes.
  - Increased throughput of system by serving requests from multiple machines for different keys, in parallel, via implementing a hashing and repartitioning algorithm.
  - Utilized: JavaScript, Express, NodeJS, Docker

- **Bagito Android App**
  - Developed an Android application for Power2Sustain, a local non-profit organization, that allows people to rent reusable bags temporarily and return them to a designated bin; worked in a five-person team.
  - Executed need finding, prototyping, user feedback, A/B testing; communicated often with the CEO.
  - Implemented the QR code scanner functionality by using the ZXing library.
  - Utilized: Java, ZXing library, Android; *app uses* Flask, MySQL, Google Cloud, Mailjet, Stripe

- **Multi-Threaded HTTP Server + Load Balancer**
  - Improved throughput under concurrent access via the dispatcher-worker model and synchronization.
  - Implemented load balancer that distributes requests and responses across multiple clients and servers.
  - Utilized: C, POSIX threads library

- **Resistor Calculator**
  - Developed an Amazon Alexa skill at MLH Hackathon CruzHacks 2019 that calculates the resistance and tolerance of a four-band resistor when provided with standardized color inputs through the VUI.
  - Utilized: JavaScript, NodeJS, AWS Lambda, Amazon Alexa, Amazon Developer Console

- **Njoy Planner/To-Do List App**
  - Developed a web application that randomly generates a schedule for the user's inputted activities/tasks.
  - Implemented SCRUM practices in a four-person team; exercised Scrum Master role.
  - Designed and implemented the algorithm for calculating the user's availability schedule.
  - Utilized: ReactJS, Redux, Express, NodeJS, MongoDB, Mongoose, Material UI

Languages and Technologies

- Java, JavaScript; NodeJS; ReactJS, C/C++, HTML, CSS, Python
- Eclipse, Unix, Git, FileZilla, Visual Studio Code, Docker, Android Studio, WordPress, Drupal, Postman, Mininet