

Neil N. Toledo

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EDUCATION

University of California, Berkeley | Berkeley, CA | Aug 2015 – May 2019

B.S. in Electrical Engineering and Computer Science (EECS)

Relevant Coursework: Principles and Techniques of Data Science, Operating Systems, Data Structures, Machine Structures, Efficient Algorithms, Computer Security, Artificial Intelligence, Database Systems, Internet: Architecture and Protocols

PROFESSIONAL EXPERIENCE

Zume, Inc. | **Site Reliability Engineer [2019 - 2020]**

- Worked extensively with Google Kubernetes, GCP Tools, and Helm Charts
- Developed a suite of python and bash scripts for automating set up of infrastructural and application monitoring and started initiatives for consolidating our third party services for better resource organization and reducing unnecessary costs.
- Assisted with reorganization of SRE On Call practices as well as pushed initiatives for reorganization of team documentation

Infinite Uptime | **Data Science Intern [Summer 2018]**

- Developed a responsive data visualization app for monitoring movement and conditions of manufacturing presses and machines using Python, Flask, and the Bokeh library. Featured a tab system to display data in different interactive formats and make future development and features easier to include and implement. Deployed using Docker and Google Compute Engine and Kubernetes.
- Added a feature to an existing admin Flask API that invokes a Google Compute Engine VM instance to run Google Big Table data migration jobs and automatically shutdown to minimize VM uptime and costs.

PERSONAL PROJECTS

CMS API - Software Design Document

Summer 2019

Wrote a comprehensive Software Design Document that includes a general overview and implementation details of a CMS API project that I'm planning to develop as an open source project. The Design Document covers the project's Microservice Architecture, Data and API Design, and Interface Design with some implementation details.

Worc_Lock

Full Stack Application
Summer 2019

Developed a virtual work clock that allows the user to 'clock in' and log their own productivity hours.

- Developed a CRUD API for the SQLite database using node and Express.js with proper API endpoints and methods.
- Developed a responsive React.js user interface using Material-UI and Recharts. Also created custom Table components for creating and editing displayed database entries.

2Day's New Tab Page

Chrome Extension
Spring 2017

Developed and published a Chrome Extension that displays Google Calendar events, custom bookmarks and weather in place of the new tab page.

- Responsive Front End UI using HTML, CSS, and Javascript
- Implemented Back End in pure Javascript using Chrome Storage to save user settings and custom wallpapers.
- Currently published in Chrome Web Store and reached 175+ Users :)

Other Projects

Personal Site/Blog: Personal Jekyll website for showcasing projects and maintaining a consolidated reference of notes. Also includes a 'Scrum For One' dashboard with 'Sprint Summaries' and 'Daily Scrum' posts for personal projects.

mini5-engine: Barebones game engine for JavaScript and HTML5 Canvas. Handles keyboard and mouse input processing, robust update and draw loops, scene and object rendering and basic AABB collision detection. Published on github and npm.

ULAB Member Dashboard: Full Stack Django Project for managing ULAB club members as well as providing an online portal for members to view announcements and manage research projects.

Anibook: PWA built with React and Javascript for browsing and bookmarking currently airing Anime.

SKILLS

Technical Languages: Python, Java, C, C#, JavaScript, Bash Scripting

Additional Technologies: ReactJS, HTML, CSS, SQL, Django, Flask, BokehJS, Jekyll, NumPy and Pandas, Express.js

Software/Tools: Google Compute Engine and Kubernetes, Docker, Helm, Datadog, Git/Github, Unity, Adobe Illustrator, Autodesk Maya, Fusion360

Languages: Fluent in English and Tagalog