

Utsav Munendra

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EDUCATION

University of California, Los Angeles

Expected December 2021

Bachelor of Science (BS) in Computer Science

- **GPA:** 3.96
- **Tutoring Chair** at UCLA Upsilon Pi Epsilon (UPE) CS Honor Society
- **Learning Assistant and Reader** for CS 33 (Computer Organization)
- **Dean's Honor List** for seven quarters at UCLA

TECHNICAL EXPERIENCE

Green Hills Software

Summer 2020, Summer 2021

Software Engineering Intern

Santa Barbara

- Extended the Rust compiler and ported many Rust crates to natively support new Green Hills' Integrity RTOS targets
- Increased performance by 4% of GHS Embedded Systems Debugger by making inter-process communication more efficient
- Built simplified models of GHS JTAG and Trace Decoding software to characterize the performance difference on Windows vs. Linux

Verkada

Winter 2021, Spring 2021

Embedded Systems Engineering Intern

San Mateo

- Developed Go services to setup encrypted volumes, create partitions, mount filesystems and audit SD card temperature
- Assisted in new board bring-up by modifying Bitbake and C++ build system
- Fixed bugs across C++, Go and Python codebase
- Created test rack for new camera models

Cuneiform Digital Library Initiative (CDLI)

Summer 2019

Web Developer

Remote

- Developed responsive webpage for a user-customizable heatmap with filters for querying artifact data and built new table associations in CakePHP models

PERSONAL PROJECTS

WebAssembly Runtime for MBed OS

September – December 2020

- Ported WebAssembly Micro Runtime (WAMR) and its interpreter to run on unsupported ARM MBed OS targets
- Modified the build system of WAMR and linked MBed specific kernel interface to WAMR's API

Microsoft Visual Studio Code – Open Source

July – September 2019

- Developed an extension in TypeScript to help students debug C/C++ programs, extension got installed more than 600 times in its first month.
- Merged fix resolving bugs relating to the git implementation of VS Code
- Reviewed Content Security Policy (CSP) of major VS Code extensions and improved the CSP of two of those

LikLion Web Development Club - UCLA

September 2018 – May 2019

- Developed a research-posting aggregator website with backend of Ruby on Rails (rconnect-ucla.herokuapp.com) on AWS with MySQL database storage

COURSEWORK

- Embedded Systems
- Computer Vision
- Computer Graphics
- Operating Systems
- Software Engineering
- Hardware Logic Design

SKILLS

Programming Languages:

Proficient:

- C/C++

Intermediate:

- Go
- Rust
- TypeScript
- Python
- Java

Technical Tools:

- Git
- Bikbake, CMake
- Bash
- Docker

Open-Source Contribution:

Microsoft VSCode, Rust Surf HTTP Client, nbccltest Python notebook testing framework