

BULENT YESILYURT

Los Angeles, CA

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EDUCATION

University of California, Los Angeles (UCLA)

Sept. 2022 – Jun. 2026

Bachelor of Science, Computer Science

Los Angeles, CA

RELEVANT COURSEWORK

- Computer Architecture
- Operating Systems
- Programming Languages
- Computer Security
- Software Construction
- Deep Learning
- Computer Networks
- Compiler Construction

WORK EXPERIENCE

Prudential Financial

Jun. 2025 – Aug. 2025

Software Engineer Intern

Newark, NJ

- Hardened Python middleware for OAuth 2.0 (authorization code & client credentials) with robust token validation and end-to-end **pytest** coverage; **improved reliability for 42% of enterprise API interactions**
- Built an **encryption/decryption SDK in Java** backed by **HashiCorp Vault (Transform & Transit engines)** to enable at-rest and in-transit data protection across backend services, allowing for easier adoption among teams
- Performed **threat modeling** for core products and SaaS vendors (e.g., GitHub Copilot), identifying high-risk data flows

2SigmaSchool

Jun. 2024 – Sept. 2024

Software Engineer Intern

Remote

- Developed a **browser-based Python IDE** with Pyodide, Web Workers, and JS-Python proxies; safely executed user code and rendered plots for **15+ graphics libraries** to allow students to run Python code efficiently in the browser
- Eliminated UI blocking via **three dedicated web workers** and a prototyped lightweight virtual DOM; **improved run/response latency by 50%** and increased classroom usability
- **Authored a Python graphics library and package** enabling in-browser drawing and game loops, expanding curriculum coverage without server dependencies

Kommu

Dec. 2023 – Feb. 2024

Software Consultant

Remote

- Delivered **full-stack authentication** for web (React, Node, Firebase) and iOS (Swift, MVVM), supporting email/password and **phone-based OTP**
- Introduced JWT-based access/refresh tokens; reduced account retrieval time by **80%** and simplified secure API access
- Optimized Firebase data access and indexing, lowering read counts by **40%** and improving perceived load times

PERSONAL EXPERIENCE AND PROJECTS

UCLA Computer Security and Privacy Lab | C | C++ | Frida | Ghidra | Java

Jun. 2025 – Present

- Contributed as a student researcher to **BadUnboxing (Google Research)**, extending its unpacking framework with detection of native Dex loading, leading to broader coverage of Android packers
- Led research into uniform unpacker design through developing **Frida JavaScript scripts** to hook onto *dlopen* calls, evading anti-debugging checks and enabling dynamic analysis of obfuscated apps
- Investigated native library behavior in Android packers through **Ghidra decompilation of C/C++ binaries**

2ndPulse | Flutter | Swift | Dart | Firebase

Jun. 2024 – Dec. 2025

- Co-Founder and CTO of an iOS app (Flutter, Firebase, Cloud Functions, Realtime Storage) that **aggregates contacts and interactions** across LinkedIn, Gmail, WhatsApp, and more to drive proactive follow-ups
- Backend developed using Firebase Firestore for cloud-based storage, **AWS lambda for web-scraping**, and Firebase Cloud functions for notifications
- Selected for Telora Fellowship (**9 teams from 900+ applicants**); onboarded **50+ beta users** and iterated on engagement funnels

BruinRide | JavaScript | React.js | Node.js | Firebase

Sept. 2023 – Dec. 2023

- A web app that allows 35,000+ UCLA students to **form rideshare groups using Firebase Cloud Firestore**
- Implemented **real-time group creation** within Firebase cloud functions and Node.js while establishing a seamless integration with a React.js user interface

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, Java, HTML, CSS, C, Swift, Markdown, Dart, Shell Scripting, Bash, Assembly

Developer Tools: Postman, Emacs, VS (Code), Git, Ghidra

Technologies/Frameworks: MongoDB, Firebase, React.js, Node.js, Selenium, Mongoose, Docker, Webpack, OpenGL, Flutter, ARM, Linux (Arch, Ubuntu), Frida