BULENT YESILYURT

(732) 395-1738 | bulentil1752@gmail.com | bulent-yesilyurt.vercel.app | https://www.linkedin.com/in/bulentyes/

EDUCATION

University of California, Los Angeles (UCLA)   **Los Angeles, CA**

Bachelor of Science, Computer Science   *June 2026*

- **Relevant Coursework**: Data Structures and Algorithms, Operating Systems, Programming Languages, Software Construction, Computer Networks, Computer Security, Computer Architecture, Deep Learning, Compiler Construction, Stochastic Processes, Linear Algebra
- **Clubs/Organizations**: ACM Cyber, Infinite Finance, Undergraduate Math Society

WORK EXPERIENCE

Prudential Financial   **Newark, NJ**

Software Engineer Intern   *June 2025 - August 2025*

- Hardened **Python middleware for OAuth 2.0** (authorization code and client credentials) with token validation and end-to-end pytest coverage, **enhancing reliability for ~42%** of enterprise API interactions
- Built an **encryption/decryption SDK in Java** backed by HashiCorp Vault (Transform & Transit engines) to facilitate at-rest and in-transit data protection across backend services
- Collaborated with different frontend teams to create a **TypeScript caching library** that synchronized shared state across multiple microfrontends in the main application**, reducing data fetches and accelerating page load times by 35%**

2SigmaSchool   **Remote**

Software Engineer Intern   *June 2024 - September 2024*

- Designed and developed **a browser-based Python IDE** in React using Pyodide to safely execute user code and render plots **from 15+ Python libraries**, enabling high school students across the country to learn Python directly in the browser
- Eliminated UI blocking using three dedicated Web Workers and a lightweight virtual DOM prototype, **improving run latency by 50%** and boosting classroom usability
- Authored a Python 'graphics' library enabling in-browser drawing and game loops, expanding curriculum coverage

Kommu   **Remote**

Software Consultant   *December 2023 - February 2024*

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

PERSONAL EXPERIENCE AND PROJECTS

2ndPulse | *Flutter* | *Firebase* | *Swift*

CTO and Co-founder   *June 2024 - Present*

- Selected for **Telora Fellowship from 900+ applicants (acceptance rate ~1%)** and **onboarded 50+ beta users**, iterating on feedback to refine product design and boost user retention
- **Built and launched an iOS app** in Flutter leveraging Firebase and Cloud Functions to aggregate and unify user connections from LinkedIn, Gmail, WhatsApp, and other platforms into a single application
- Developed the backend **using Firebase Firestore** for account and connection cloud storage, **AWS Lambda** for automated web scraping, and **Firebase Cloud Functions** for real-time notifications

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

Student Researcher   *June 2025 - Present*

- Contributed 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**

TextEdit | *C* | *tree-sitter* | *Python*   *July 2025 - Present*

- Developed a performant text editor in C with tree-sitter-powered syntax highlighting and dynamic editing
- Engineered a **Trie-based autocomplete feature with O(1) lookups** and optimized row-buffer management, **enhancing edit latency by 40% on 1k+ line files**
- Integrating **agentic editing capabilities via the Claude API in Python** to facilitate natural-language assisted edits

SKILLS AND INTERESTS

Languages & Dev Tools: Python, C++, JavaScript, Java, HTML, CSS, C, Swift, Markdown, Shell Scripting, Bash, Postman, Emacs, VS (Code), Git, Ghidra
Technologies/Frameworks: MongoDB, Firebase, React.js, Node.js, Selenium, Docker, Webpack, OpenGL, Flutter, ARM, Linux (Arch, Ubuntu), Frida
Personal Skills & Interests: Problem Solving, Teamwork, Attention to detail, Soccer, Biking, Cooking, Stanley Kubrick movies, Meeting founders