

DANIEL BAE

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EDUCATION

University of California, Los Angeles *B.S. Computer Science, Samueli School of Engineering* Expected June 2030

- Coursework: Introduction to Computer Science (CS 31), Honors Multivariable Calculus (Math 32AH), Calculus (Math 31B), Computer Science Principles (CS 1), Engineering Composition (ENGCAMP 3E)

Taejon Christian International School *Daejeon, South Korea* Aug 2024 – May 2026

- Valedictorian | Weighted GPA 4.7/4.0 | IB Diploma 43/45 | ACT 35/36

TECHNICAL SKILLS

Programming: Go, Rust, Python, C/C++, JavaScript, Bash, SQL (SQLite)
Infrastructure: Linux, Docker, Oracle Cloud, AWS (EC2, IAM, S3, SQS, CodeBuild), Tailscale, Cloudflare, GitHub Actions CI/CD
Security: penetration testing, web application security, privilege escalation, Active Directory, Elastic SIEM, incident response
AI tooling: OpenAI Codex, Gemini, Grok Build; generated code is reviewed and gated by automated tests before merge
Spoken Languages: English, Korean (fluent), Mandarin (HSK Level 5 certification)

EXPERIENCE

Open-Source Contributor | github.com/mrbeldum *Go, Rust, Python* Sep 2026 – Present

- Merged 111 pull requests into 94 open-source projects maintained by other developers, 70 of them written in Go
- Fixed 2 bugs in Sunshine, the 42,000-star game-streaming server that Latch runs on: repaired automatic router port mapping (UPnP) and stopped abandoned pairing sessions from blocking new devices
- Contributed to NVIDIA GPU Operator (pinned a component to a multi-architecture image), GoReleaser (clear errors when a moved repository redirects uploads) and AWS Karpenter (examples for inspecting EC2 nodes)
- Shipped security fixes including server timeouts against slow-request denial-of-service, configurable secure cookies and AWS S3 key escaping; made Admin API errors actionable in TrustGate, an open-source gateway for LLM traffic

Exercism *Volunteer Mentor at a free, nonprofit coding school* Mar 2024 – Present

- Mentored 26 learners through line-by-line code reviews (5 public testimonials); published 144 solutions in 9 languages

PROJECTS

Bruin Clubs | bruinclubs.org *Go, SQLite, Python, Oracle Cloud, Cloudflare* Sep 2026 – Present

- Built and launched a searchable directory of all 1,863 UCLA student organizations; reached 1,400+ users in its first 3 weeks with no paid promotion, with 62% of visits coming from search engines
- Drove 1,380 click-throughs to clubs' own sign-up forms, Instagram pages and websites; 1 in 3 users went on to a club's page, and 580 different clubs received at least one visitor
- Wrote a data pipeline that merges 5 official UCLA sources and uses proxy-routed scrapers to collect sign-up links for 1,200+ clubs; the Go server renders pages in about 1 ms (0.24 s median load)

Latch | github.com/mrbeldum/latch *Rust, Tailscale, Docker, Oracle Cloud* Sep 2026 – Present

- Built a remote-desktop app (about 30,000 lines of Rust) that streams one computer to another over Tailscale's encrypted private network, with hardware video decoding, two-way clipboard and signature-verified auto-updates
- Deployed a Dockerized fallback relay on Oracle Cloud for when direct connections fail; shipped 16 releases (now v4.1.1) for macOS, Windows and Linux with 261 automated tests and CI/CD

cairn | github.com/mrbeldum/cairn *Go, SQLite* Sep 2026

- Implemented a container image registry (the job AWS ECR does) to the OCI standard; passes 75 conformance tests

star-loop | github.com/mrbeldum/star-loop *Rhai, Grok Build* Sep 2026

- Wrote an autonomous coding-agent workflow: each iteration starts with fresh context, and an independent verifier re-runs the project's own tests before any "done" claim is accepted

CYBERSECURITY

Hack The Box *Ethical-hacking training platform with 4.3M+ users* Jun 2024 – Present

- Earned the Certified Junior Cybersecurity Associate (CJCA, Jul 2026): 20 modules, then a graded exam attacking 5 company servers and triaging alerts in an Elastic security-monitoring system, written up as a pentest report
- Gained full administrator control of 39 of 42 intentionally vulnerable practice servers; ranked in the top 850 of 4.3M+ users (Sep 2026) and a member of HackIndex, a team ranked #8 worldwide
- Exploited a server-side request forgery (SSRF) flaw in a simulated AWS environment to steal EC2 metadata-service keys, then pivoted through SQS and CodeBuild to full control of the host; also solved a smart-contract exploitation challenge

LEADERSHIP & HONORS

- **1st Place, HumanAsia 2024 Essay Contest:** \$700 scholarship over 200+ entrants for an essay on AI and human rights
- **Wall Street Guide Merit Scholarship (2026):** \$8,000 award given to the top 5% of 560+ applicants after an interview
- **Cross Country Team Captain (elected):** led the TCIS team at international meets across Asia; Most Improved Player 2025
- **STEAM Club Secretary and Lincoln-Douglas Debate Finalist** (top 4 among Korea's international schools)