Bode Kaanta

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EDUCATION

Colorado State University, Fort Collins, CO *Expected Graduation Date: May 2027*
B.S. Computer Science (cybersecurity-focused coursework) • Minor: Percussion Performance • GPA: 3.663

EXPERIENCE

The Ties Program (Adoptive Family Travel) | Data Analyst, then Front-End Developer *2023 – 2024; Aug 2025 – Present*

- Building the front end of a Zoho Creator client portal, now in development, to replace a set of disconnected Zoho Forms for families on international heritage programs, with multi-step flows, task checklists and save-and-resume
- Designing around platform limits: moving status logic to server-side Deluge after finding Zoho strips client-side JavaScript, and planning a five-state progress model for a 1–2 hour data sync lag
- Analyzed and de-duplicated traveler records, then cleaned and prepared 2,700+ contacts for migration into Zoho CRM, including resolving 46+ duplicate contact clusters

PROJECTS

Bookedex | Flutter/Dart, Firebase, Google ML Kit | *github.com/BodeKaanta/Book-Shelf-Project* *iOS beta, Oct 2026*

- Sole developer on a 3-person team (with a product/design lead and a target-user tester), building a mobile app that turns photos and screenshots of book covers into a personal visual library
- Built a recognition pipeline: on-device OCR → custom query builder → Google Books API with an Open Library fallback; matches at 75%+ confidence auto-add, the rest go to a swipe-to-confirm review screen
- Shipped signed Android and iOS release builds, fixed a release-only bug where code shrinking stripped ML Kit, and submitted to Apple TestFlight Beta App Review
- Used Claude Code as an AI pair programmer, reviewing and device-testing every change before it was committed

Hand Speed Calculator | Java, Flutter/Dart | *github.com/BodeKaanta/Hand-Speed-Calculator*

- Built a cross-platform app for percussionists that converts a tempo between 15 rhythmic subdivisions, including tuplets, while keeping the same hand speed; wrote the conversion logic myself with minimal AI help
- Prototyped the math in Java, then ported it to Dart with the calculation logic separated from the UI, unit tests, input validation and a saved light/dark theme

D2 Loot Alert | Flutter/Dart, Python, Firebase | *github.com/BodeKaanta/D2-Loot-Alert* *Android working, iOS in progress*

- Building a mobile app that alerts Destiny 2 players when a weapon, raid or dungeon they watch becomes farmable, using a scheduled Python Cloud Function that reads the Bungie.net API after each daily reset
- Sends alerts through Firebase Cloud Messaging topics so the server stores no user data; fixed late alerts on idle Android phones by switching to high-priority data messages

Trip Planning Web App | CS 314 Software Engineering, Scrum team project | Java, SparkJava, JUnit *Fall 2025*

- Built server features for a trip-planning web app: a distance-calculator interface, a factory that validates the requested formula and defaults to Vincenty, and the distances API request with its JSON schema
- Created the abstract tour-optimizer and data-source base classes behind route optimization and place lookups, with JUnit tests for each feature
- Wrote JSON test cases for a class-wide shared test suite and reviewed teammates' pull requests

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL, Dart, JavaScript, HTML/CSS, Deluge
Frameworks & platforms: Flutter, Firebase (Firestore, Auth, Cloud Functions, Cloud Messaging), Riverpod, Google ML Kit, GSON, JSON Schema, Zoho CRM / Creator / Analytics
Tools & practices: Git, GitHub (issues, PRs, Projects), JUnit, Wireshark, Cisco Modeling Labs, Xcode, Android Studio, Claude Code (AI-assisted development), Scrum, code review

RELEVANT COURSEWORK

In progress: Modern Cybersecurity (CS 456), Computer Networks (CS 457)
Completed: Database Systems (CS 430), Operating Systems (CS 370), Systems Security (CS 356), Software Engineering (CS 314), Algorithms (CS 320), C++ (CT 301)

LEADERSHIP & AWARDS

- Caption Head, Blue Knights Open (2025 season); Percussion Technician (staff), Fossil Ridge High School (2024 – 2025)
- Percussion section leader, 6 seasons across marching band and indoor percussion
- Daniel Burke Memorial Award, Blue Knights Drum Corps (2024); Colorado All-State Band; Sousa Band Award