Kai McCormick

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Software engineering student with a passion for building reliable, secure, and performant software

EDUCATION

Bellevue College — Seattle, WA
Bachelor of Science in Computer Science, 3.7 GPA — *Aug. 2023 – Jun. 2027*

EXPERIENCE

CS Department Student Assistant — Aug. 2025 – Present
Bellevue College — *Seattle, WA*
- Led Unix-based AWS cloud workshops for 10+ students, collaborating with faculty and industry professionals, which enhanced students' understanding of cloud platforms
- Helped organize Smart City hackathon and a competitive programming contest at Bellevue College, in partnership with King County organizations, and Korea's Keimyung University
- Gathered CS student feedback and presented improvement suggestions to faculty as part of the CS Advisory Board

STEM Teacher — Aug. 2025 – Present
Xtatic — *Seattle, WA*
- Built FIRST robotics to compete in national competitions as part of a fast-paced, collaborative environment
- Taught diverse K-12 students and adapted curriculum to support different backgrounds and learning needs
- Documented curriculum standards with other King County teachers, improving learning across 5+ courses

Software Engineer — Jul. 2023 – Nov. 2023
Idolfest Foundation — *Seattle, WA*
- Improved Gatsby.js website speed by 60%, enhancing user experience and reducing load times
- Managed Jira boards, ensuring I met 100% of my assigned tasks

Software Engineer — May 2019 – July 2022
ThetaHacks — *San Jose, CA*
- Built Minecraft server infrastructure supporting 300+ concurrent players on AWS
- Developed and deployed React/Next.js apps used by 500+ users during events
- Created presentations to teach workshops for 500+ participants with industry professionals

PROJECTS

Mini Database Engine | *C++, Git, GitHub Actions*   github.com/CompSciBC/minidatabase-KaiDevrim
- Built database engine using Binary Search Trees for insert, soft-delete, find, to query large datasets efficiently
- Implemented database data structures, and algorithms to store 1000+ entries worth of information efficiently
- Deployed GitHub Actions CI/CD pipeline running 17 automated tests per commit, validating all operations

Khip-8 | *C, Kotlin, Assembly, Operating System, Emulation*   github.com/kaidevrim/khip-8
- Developed a CHIP-8 emulator in Kotlin supporting 35+ parallel processed instruction opcodes
- Implemented CPU cycle execution, memory management, and pixel-based graphics rendering
- Automated testing and deployments, reducing release cycles by 50%

StarItAll | *Go, C#, ASP.NET, AWS, Chef, Docker, Kubernetes, CI/CD*   github.com/kaidevrim/StarItAll
- Created a tool to automate starring for 100+ GitHub repositories to boost user engagement
- Made a full-stack web app deployed on AWS with a Go backend with secure authentication using GitHub APIs
- Implemented logging and analytics, revealing the app is used by thousands of users worldwide

Home Server | *Cloudflare, Docker, Terraform, Distributed Systems, GitHub Actions, CI/CD, Traefik*   dash.dvr.im
- Managed 28TB redundant storage and containerized infrastructure supporting over 30 concurrent streams
- Safely automated infrastructure deployment using Ansible and Terraform
- Monitored server health with Grafana and Prometheus, ensured reliability with Kubernetes and Load Balancing

TECHNICAL SKILLS

Languages: Python, Kotlin, C, C++, Go, C#, JavaScript/TypeScript, Bash, SQL
Cloud: Ansible, Terraform, Kubernetes, Docker, AWS, Unix/Linux, Azure, TCP/IP
Developer Tools: AI/ML, LLMs, TensorFlow, Databases, Unit Tests, NextJS, DS&A, Git, GitHub Actions, CI/CD