Allyson Keightley

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Education

Western Governors University — Salt Lake City, UT
Bachelor of Science in Software Engineering — *Exp May 2028*

Experience

Software Engineer Intern — September 2025 - Present
Kahani — Stanford-based VC-backed startup — *Remote*

- Built and ran A/B tests for mobile app features with **Flutter, Dart and, GCP**; based on insights from moderated user-testing groups, turn qualitative feedback into prioritized engineering tickets
- Cross-collaborate with PMF team in sprints for an AGILE, lean, fast-paced environment
- Co-authored infra + screen inventory for pilot features (states, edge cases, data flows), cutting design to engineer handoff time by **40%** and reducing open questions per ticket by **70%**
- Set up **MVVM, feature-first** folder architecture, improving code reuse and dropping time by **30%**
- Authored dev guides that made build reproducible, lowering new-machine setup and unblocking 80% teammates
- Developed CI/CD workflow with **GitHub Actions** to cut PR cycle time with lint/tests

Projects

Internship Tracker | *Next.js, Typescript, Express.js, Prisma, PostgreSQL, Auth.js* — View Repo

- Full-stack React/Node web app to manage applications with a dashboard view and drag-and-drop Kanban board
- Integrated **Auth.js** for secure user authentication, enabling personalized dashboards and protected access
- Connected frontend and backend logic using **tRPC** API procedures for real-time create, edit, and filter functionality across multiple relational models in **PostgreSQL**

CS Course Explorer | *React, Vite, React-Router, Express.js, OAuth, Render, PostgreSQL* — View Demo

- Deployed, full-stack student-sourced course intelligence app; reviews with voting, filters, resources
- Achieved fast UX by keeping p95 API under **500ms** in test data, added SQL constraints and indexes for fast reads
- Implemented REST API for courses, reviews, voting, and resources; added validation, pagination, optimistic updates, and conflict handling

ALL Blood Cell Classifier | *Python, TypeScript, React, FastAPI, Tensorflow, Keras, Grad-CAM* — View Repo

- Fine-tuned ResNet50 classifier on 4-class blood-cell microscopy dataset of approx 3.2k images, reaching **97.8% validation accuracy and 0.95 macro F1** using class-weighted training and aggressive augmentation with Keras and TensorFlow.
- Built an interactive **React + Vite** dashboard with **Recharts** to visualize training vs. validation loss and accuracy over 45 epochs, to compare learning curves without touching Python
- Used scikit-learn to compute per-class precision/recall/F1 and overall macro/weighted F1, packaging the full classification report into **JSON** for downstream analysis and for surfacing headline metrics in the web UI

Technical Skills

Languages: Python, JavaScript/Typescript, Dart, SQL, HTML/CSS
Frameworks & Libraries: React, Next.js, Flutter, Node.js, Express, FastAPI, Tailwind CSS, ShadCN UI
Tools & Platforms: Git, GitHub, GitHub Actions, Postman, Figma, AWS, Google Cloud Platform, Supabase

Programs & Leadership

Management Leadership for Tomorrow (MLT) — Class of 2028
Career Prep Fellow- Software Engineering Track

AI4ALL Ignite — September 2025 - Present
AI/ML Accelerator Fellow

CodePath — May 2025 - Present
Intermediate & Advanced Web Development | Community Leadership Group

Microsoft Emerging Leaders for College Students — July - September 2025
Asynchronous Cohort