# Halaway Keller

**in** *halaway*
 *halawaykeller*

## Summary

I'm a software engineer and technical leader with 10 years of experience solving complex technical and organizational problems. I focus on backend architecture, functional programming, and data systems. I'm drawn to roles that mix hands-on engineering, mentorship, and customer impact.

## Skills

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|---|---|
| Computer Languages | Haskell, Scala, Python, SQL, JavaScript, Java, Bash, LaTeX |
| Data & Infra | PostgreSQL, MySQL, Terrraform, Docker, Redis, Kafka<br>AWS: RDS, EC2, S3, CloudWatch, IAM, Fargate. GCP: BigQuery |
| Software Engineering | Functional Programming, Domain Driven Design, Observability, CI/CD |

## Professional Experience

**2021–Present** — **Principal Engineer & Engineering Manager**, *Co–Star*

*Technologies: Haskell, Python, PostgreSQL, AWS, GCP*
- Currently leading the backend team, overseeing infrastructure, data, and ML systems.
- Designed and led building a modern data lakehouse to support analytics and personalization.
- Designed and implemented in Haskell a generalized in-app purchase system used across all subscription offerings.
- Migrated 20B+ contact records to a secure format with zero downtime, improving compliance and reliability.
- Mentored engineers to raise technical standards, build shared patterns, and grow backend expertise.

**Lead Software Engineer**
- Led technical design for Co–Star's first subscription product.
- Implemented rapid experimentation and optimization of onboarding and content features.
- Increased successful user migration from deprecated auth modes by 20%, reducing support load and churn risk.

**2018–2021** — **Senior Software Engineer**, *Xpansiv*

*Technologies: Scala, Java, Docker, PostgreSQL, AWS*
- Technical lead for a full-stack team of six engineers and one QA engineer.
- Standardized authentication across business lines, enabled SSO and decreased time to on-board new users.

**Software Engineer**
- Implemented data pipeline for ingesting commodity data. Developed services for generating a digital asset and registering them as financial instruments.
- Implemented a verifiable data structure for tracing and validating transactions on digital commodity assets.

**2017–2018** — **Software Engineer**, *BlueInk Technologies*

*Technologies: Python, JavaScript, React, MySQL, Heroku*
- Individual contributor in Python and JavaScript using Django and React.
- Identified the need for automated customer support - integrated application with existing support platform.
- Communicated releases and gathered customer feedback to inform feature development.

**2016–2017** — **Web Developer**, *ZByte Software*

*Technologies: WordPress, PHP, JavaScript, HTML, CSS*
- Built custom WordPress themes and plugins using PHP, JavaScript, HTML, CSS/SASS.
- Implemented mobile-first, cross-browser features and designs.
- Prepared website proposals and drove technical solutions to meet business needs.

| 2013–2016 | **Web Developer**, *Gravitas Publications* |
|---|---|
| | *Technologies: WordPress, PHP, JavaScript, HTML, CSS* |
| | ○ Designed, implemented, and migrated to a mobile-first, custom WordPress, eCommerce site. |
| | **IT & Operations Admin** |
| | ○ Led upgrading the website through a third party development team. Managed the proposals and contract. |
| | ○ Maintained and updated web technologies. Managed internal and external software and access for a remote team. |
| 2012–2013 | **Leadership Consultant**, *Kappa Kappa Gamma* |
| | ○ Guided and directed collegiate leadership at over 20 colleges and universities. Authored weekly reports, facilitated workshops, traveled weekly, developed educational activities, led organizational assessments. |
| 2011–2012 | **Math & Science Student Manager**, *Center for Academic Program Support* |
| | ○ Managed the tutoring floor for Math and Science. Led tutors in weekly prep. |
| | **Supplemental Instruction Leader - Calculus** |
| | ○ Designed and led weekly sessions to deepen student development and understanding of core concepts. Led test prep and study sessions. |

## Education

| 2018–2020 | **Master of Science in Computer Science**, *University of New Mexico* |
|---|---|
| | Partially completed due to work related relocation in 2020. |
| | Courses in: Advanced functional programming, compiler construction, theory of computation. |
| 2015 | **Certificate of Completion in Fullstack Web Development**, *CNM STEMulus Center* |
| | 10 week immersive: JavaScript, MySQL, PHP, HTML, CSS |
| 2009–2012 | **Bachelor of Arts in Philosophy, English**, *University of New Mexico* |
| | Senior thesis: Kantian aesthetics, the nature of beauty. |
| | magna cum laude |

## Community Work

| 2018-Present | **Founder**, *Rubber Ducks* |
|---|---|
| | A grassroots community for women and marginalized people in tech. Held monthly meetings, educational sessions, and professional support growing to 100 members over 2 years. |
| 2016 | **Coding Instructor Summer Camp**, *Foundations 4 Success* |
| | Prepared and taught programming basics and game design to middle-schoolers using Scratch and JavaScript. |
| 2015–2016 | **Programming Instructor - Winterim & Summer Camp**, *Bosque School* |
| | Prepared and taught summer and winter break programming curriculum for grades K-8. Utilized Scratch, JavaScript, Python to build interactive games. |

## Awards

| 2018 | **Deep Dive Code-A-Thon**, *2nd Place* |
|---|---|
| 2015 | **University of New Mexico Hybrid Mobile App Contest**, *1st Place* |

## Hobbies

| Creative | Short fiction, poetry, perfume |
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| Technical | Types, compilers, observability |
| Community | Teaching, mentoring |