

# Aidin NasiriShargh

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OBJECTIVE Being impactful in a challenging, fast-pace, fun, and friendly software development team.

SOFT SKILLS

- People Management, Leadership, Coaching, Mentoring, Self-Improvement, Teaching
- Team Growth, Hiring, Culture Building

TECHNICAL SKILLS

- **FrontEnd:** Quasar, Vue.js, Angular, React, Google Closure, SPA, Capacitor
- **BackEnd:** TypeScript, C++, Node.js, Express.js, LAMP, REST, GraphQL, MySQL
- **DevOps:** Docker, AWS (ECR, ECS), Bash, APM (New Relic), CI/CD
- **Infrastructure:** Microservices, Distributed Tracing, GCP, AWS (EC2, S3, CloudFront)
- **Product Development:** Agile, i18n/L10n, A/B Testing, Growth Hacking, AI/NLP/NN

WORK EXPERIENCE

- ◇ **Principal Software Developer at Verkada Inc.**, San Mateo ..... Nov 2022 - present
  - Working with a team of 8 developers, Product, and dedicated Design people to ship the next promising product of Verkada in Physical Safety space. (Launch planned for Feb 2023)
  - Led several initiatives in the software development pipeline and project management operations within the first two months to improve efficiency and focus of the developers as well as resilience and quality of the product.
  - Technologies: GraphQL, React, Temporal, Python, Strawberry, Relay, Apollo, PostgreSQL.
- ◇ **CEO and Founder at Codelita**, San Francisco ..... May 2019 - present
  - **Codelita.com** is an online platform (Web and Mobile app) for learning programming from scratch.
  - Multiple rounds of iteration to find PMF. Shipped and evaluated tens of features. Conducted hundreds of User testing sessions. Designed in-house behavior tracking. Evaluated Pricing strategies.
  - Designed and Implemented a smart Virtual Keyboard (codeboard.com, patent pending) to improve the coding experience on touch devices (e.g. TAB key, special keys, navigation, auto-complete).
  - Designed and Implemented two AI engines for providing custom feedback on the users' codes as well as a personalized curriculum, based on the user's performance. (patent pending.)
  - 150K lines of TypeScript for 10+ microservices, Vue.js, Quasar, Capacitor, Node, Express, MySQL, SSG/SSR, AWS ECS and Blue/Green Deploys, 1700 Jira tickets, and 87 sprint.
- ◇ **Staff Software Engineer at Credit Karma Inc.**, San Francisco .... Jan 2018 - Dec 2018
  - Owned, led, and shipped **My Balances project** to allow our users link their bank accounts and see all their transactions in one place. It required people skills (30+ individuals), technical skills (5 languages, from K8s to Android UI), and product skills (shortcuts to ship fast & learn often.)
  - Worked with Observability team to build **Distributed Tracing** (on top of Zipkin and Google Stacktrace) covering FrontEnd, Monolith PHP, GraphQL, Scala services, K8s/Docker, DB queries.
  - Conducted a thorough buy-vs-build analysis and designed an in-house system for **Deep Linking**.
  - Offered **coaching & mentorship** to junior devs. Proposed several improvements for hiring.
- ◇ **Director of Web Applications at Zoosk Inc.**, San Francisco ..... May 2017 - Dec 2017
  - Worked with the team to make our **SPA Web Apps** (~1M LOC) faster and more powerful.
  - Improved **monitoring & alerting** of the microservices, BackEnd, and FrontEnd significantly in AWS. It empowered the team to confidently ship up to 12 times a day.
  - Established disciplines for managing 7 years of legacy code and priming new hires faster.
  - CEO/VPs recognition for detecting and hunting various bugs that were causing 7-figure losses.

- WORK EXPERIENCE (CONT'D)
- ◇ **Lead Software Engineer Manager at Zoosk Inc.**, San Francisco ... Jul 2015 - May 2017
    - Led and managed different teams of **up to 8 developers** and close collaborated with PM and QA. Ran planning, scheduling, resourcing, and shipping for **40+ Agile two-week sprints**. Delivered numerous new features, bug fixes, technical improvements, and processes refinements.
    - As a hiring manager went over more than **1000 resumes** and conducted **over 100 phone and onsite interviews** to grow the team to double (and shrink) when required.
    - Spoke at FutureStack 2016 conference about how **Initial Page Load time** of our **Single Page Applications** directly impacts the user engagement. [Video: <https://youtu.be/NiCanLZrmDw>]
  - ◇ **Software Engineer at Zoosk Inc.**, San Francisco ..... Feb 2013 - Jul 2015
    - Developed tens of new features, created many tools, documentations, and patterns in the code; and fixed hundreds of bugs on our SPA in Google Closure, AngularJS and PHP in BackEnd.
    - Designed and implemented a mechanism to reduce the load of Web Apps on the servers by 3%.
  - ◇ **Software Engineer at Google Inc.**, Mountain View, CA, USA ..... Oct 2012 - Dec 2012
    - Member of Discovery team of Google Plus; analysing the huge social graph of users and actions.
  - ◇ **Open Source Software Developer** (Owner and Main contributor) ..... 2004 - 2010
    - **Phormer** [<http://p.horm.org/er>]: Lightweight, feature-rich photo gallery manager Since 2006
    - **PsychHo** [<http://psyc.horm.org>]: WYSIWYG template generator for weblogs Since 2005
  - ◇ **Freelance Web Developer and Webmaster** ..... 2005 - 2009
    - Designed and maintained serveral websites using Photoshop, PHP, MySQL, Javascript, and CSS.
    - Remote front-end developer for generation-digitale.net in Germany.
  - ◇ **Software Engineer Intern at FarsiWeb Inc.**, Tehran, Iran ..... 2003 - 2005
    - Implemented a crawler to collect and refine Persian words for the Aspell-based spell checker.
    - Contributed to FarsiFonts 3.0 Installer for Sharif Linux, a localized GNU Linux based OS.
- EDUCATION
- ◇ **M.Sc. in Artificial Intelligence**, Sharif Univ. of Tech, Iran (Dropped Out) .... 2009 - 2012
    - Courses: Evolutionary Algs, Machine Learning, Natural Language Processing, Neural Networks
  - ◇ **B.E. in Computer Engineering**, Sharif University of Technology, Iran ..... 2004 - 2009
    - Thesis: "Proposing a New Content-Based Similarity Measure between Persian Weblogs"
- OUTSTANDING HONORS AND AWARDS
- ◇ **36<sup>th</sup> Team** in the 34<sup>th</sup> ACM ICPC Programming Contest, World Finals, Harbin, China. Feb 2010
  - ◇ **14<sup>th</sup> Team** in the 33<sup>th</sup> ACM ICPC, World Finals, Stockholm, Sweden. .... Apr 2009
  - ◇ **Deputy Leader of Iran Delegation** in the 23<sup>rd</sup> IOI, Pattaya City, Thailand ..... Jul 2011
  - ◇ Awarded as **Outstanding Student** by the university president. .... 2004, 2009, 2010
  - ◇ **Ranked 16<sup>th</sup>** in AI and **9<sup>th</sup>** in Software Eng field of nationwide M.Sc. entrance exam .. May 2008
  - ◇ Consistently placed in the **top 5 regional teams** of ACM ICPC, West Asia 2005, '06, '07, '08, '09
  - ◇ **International Silver Medal** in the 16<sup>th</sup> Olympiad in Informatics, Athens, Greece. .... Sep 2004
  - ◇ **National Gold Medal** in the 13<sup>th</sup> Iranian National Olympiad in Informatics, Iran. .... Sep 2003
  - ◇ **National Silver Medal** in the 12<sup>th</sup> Iranian National Olympiad in Informatics, Iran. .... Sep 2002
- ACTIVITIES
- ◇ **Volunteer interviewer**, Braven, San Jose, supporting underrepresented youth and their career 2018
  - ◇ **Community supporter** in Tenderloin neighborhood of San Francisco ..... 2014 - 2017
  - ◇ **Summer Camp Leader** of highschool students at Young Scholars Club, Iran Summer '06, '07, '08
  - ◇ **Volunteer Instructor** of extracurricular classes for Web & Programming in Sharif U. 2007 - 2008
  - ◇ **TA** for C++(5 sem.), Design of Algorithms (3 sem.), AI (2 sem.), Web Programming .. 2005 - 2011
  - ◇ Built an **AI Backgammon Player** using **Evolutionary Algorithm** that could beat human 2009
  - ◇ Held a **photography exhibition** titled "*The afternoons I came home late*" ..... 2008
- PUBLICATION
- ◇ **600 Multiple Choice Problems on Data Structures and Algorithms** (Book in Persian) Co-authored with Prof. Mohammad Ghodsi, Fatemi Publication ..... Dec 2012
- HOBBIES
- ◇ Writing (Short Stories), Photography, Learning new languages, Online shopping, and Fixing car scratches.