# Aidin (Aideen) NasiriShargh

 aideen.org · ✉ aideen@gmail.com · in/in/eyedean · ⌂ /eyedean · ⚲ San Francisco, CA, USA

OBJECTIVE

To make a meaningful impact and contribute to a dynamic, growing, and fun team.

SOFT SKILLS

o Leadership, Management, Problem-Solving, Team Growth, Coaching, Culture Building

TECHNICAL
SKILLS

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

WORK
EXPERIENCE

◇ **CTO** at **MEDinfinit**, San Francisco, CA, USA ............................... 2024 - 2025
   o Contributing to the product and growth, along with hands-on development experience.
   o Technologies: React, Node.js, MongoDB, OpenAI API, AWS Beanstalk/Cognito/EC2, New Relic.

◇ **Principal Software Developer** at **Verkada Inc.**, San Mateo, CA, USA ...... 2022 - 2023
   o Led a team of 8 devs, PMs, and designers to ship a promising critical software in Physical Safety.
   o Technologies: GraphQL, React, Temporal, Python, Strawberry, Apollo, PostgreSQL.

◇ **CEO & Founder** at **Codelita LLC**, San Francisco, CA, USA ................. Since 2019
   *codelita.com is a platform (Web, iOS, and Android apps) for learning programming from scratch.*
   *It won the **Product of the Day Award** on Product Hunt in October 2023.*
   o Invented and built a **Custom Virtual Keyboard** (codeeboard.com) for coding on the phone.
     Used in over 500,000 code submissions by tens of thousands of users. (US Patent US20220236967A1)
   o Developed **2 proprietary AI engines** for providing custom feedback on users' code submissions
     and offering a personalized curriculum based on the user's learning performance.
   o Technologies: TypeScript, microservices, Vue.js, Quasar, Capacitor, Node.js, Express.js, MySQL,
     SPA, SSG/SSR, Bash, Git, AWS ECS/EC2/S3/ELB/SNS/etc, CI/CD, and Blue/Green Deploys.

◇ **Staff Software Engineer** at **Credit Karma Inc.**, San Francisco, CA, USA ......... 2018
   o Owned, led, and shipped **My Balances project** to allow users to link their bank accounts and see
     all their transactions. 30+ individuals, 5 programming languages, various product shipping hacks.
   o Worked with Observability team to build **Distributed Tracing** (on top of Zipkin & Google Stack-
     trace) covering FrontEnd, Monolith PHP, GraphQL, Scala services, K8s/Docker, and DB queries.
   o Conducted a thorough buy-vs-build analysis and designed an in-house system for **Deep Linking**.

◇ **Director of Web Applications** at **Zoosk Inc.**, San Francisco, CA, USA ........... 2017
   o Improved **monitoring & alerting** of the microservices to empower shipping up to 12 times a day.
   o Established disciplines for managing 7 years of legacy code and priming new hires faster.
   o CEO/VPs recognition for detecting and fixing various bugs that were causing 7-figure losses.

◇ **Software Engineer Manager** at **Zoosk Inc.**, San Francisco, CA, USA ....... 2015 - 2017
   o Led and managed different teams of up to **8 developers** and closely collaborated with PM and
     QA. Ran planning, scheduling, resourcing, and shipping for **40+ two-week Agile sprints**.
   o Spoke at FutureStack 2016 conference about how the Initial Page Load time of our Single Page
     Applications directly impacts user engagement. [Video: https://youtu.be/NiCanLZrmDw]
   o Reviewed **1000+ resumes** and conducted **100+ phone & onsite interviews** as Hiring Manager.

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| WORK EXPERIENCE (CONTINUED) | ◇ **Software Engineer** at **Zoosk Inc.**, San Francisco . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2013 - 2015 |
| | ○ Developed tens of new features, created many tools, documentations, and patterns in the code. |
| | ○ Fixed hundreds of bugs on our SPA in Google Closure, AngularJS, and PHP in BackEnd. |
| | ○ Designed & implemented a batching mechanism to reduce the load of Web Apps on servers by 3%. |
| | ◇ **Software Engineer** at **Google Inc.**, Mountain View, CA, USA . . . . . . . . . . . . . . . . . . . . . 2012 |
| | ○ Member of the 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** (https://p.horm.org/er): Lightweight, feature-rich photo gallery manager |
| | ○ **PsycHo** (psyc.horm.org): WYSIWYG template generator for weblogs |
| | ◇ **Freelance Web Developer and Webmaster** . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 2005 - 2009 |
| | ○ Designed and maintained several websites using PHP, MySQL, Photoshop, 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. |

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| 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" |

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| PATENTS | **Virtual keyboard for writing programming codes in electronic device** . . . . . . Oct 2024 |
| | US Patent US20220236967A1. Inventor: Aidin NasiriShargh. |

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| PUBLICATIONS | **600 Multiple Choice Problems on Data Structures and Algorithms** . . . . . . . . . . . . . 2012 |
| | Book in Farsi. Co-author: Prof. M. Ghodsi. Fatemi Pub., ISBN: 978-964-318-743-9, 10th Edition (2023) |

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| OUTSTANDING HONORS AND AWARDS | ◇ **Deputy Leader of Iran Delegation** in the 23$^{rd}$ IOI, Pattaya City, Thailand . . . . . . . . . . . . . . 2011 |
| | ◇ Awarded as **Outstanding Student** by the university president . . . . . . . . . . . . . . . . . 2004, 2009, 2010 |
| | ◇ **36$^{th}$ Team** in the 34$^{th}$ ACM ICPC Programming Contest, **World Finals**, Harbin, China . . 2010 |
| | ◇ **14$^{th}$ Team** in the 33$^{th}$ ACM ICPC, **World Finals**, Stockholm, Sweden . . . . . . . . . . . . . . . . . . . 2009 |
| | ◇ **Ranked 16$^{th}$** in AI and **9$^{th}$** in Software Eng field of nationwide M.Sc. entrance exam . . . . . . 2008 |
| | ◇ Placed in the **top 5 regional teams** of ACM ICPC, West Asia . . . . . . . . . . . 2005, '06, '07, '08, '09 |
| | ◇ **International Silver Medal** in the 16$^{th}$ Olympiad in Informatics (**IOI**), Athens, Greece . . . 2004 |
| | ◇ **National Gold Medal** in the 13$^{th}$ Iranian National Olympiad in Informatics, Iran . . . . . . . . 2003 |
| | ◇ **National Silver Medal** in the 12$^{th}$ Iranian National Olympiad in Informatics, Iran . . . . . . . . 2002 |

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| ACTIVITIES | ◇ **Podcaster, Influencer, & Advocate** for Mental Health and Self-Improvement . . . . . . Since 2022 |
| | ◇ **Life and Career Coaching** to clients in various levels of life and career . . . . . . . . . . . . . Since 2021 |
| | ◇ **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 my father 2009 |
| | ◇ Held a **Photography Exhibition** titled *"The afternoons I came home late"*, Sharif U., Iran 2008 |

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| HOBBIES | Writing (Short Stories), Photography, Learning, Podcasting, Online shopping, and Fixing car scratches! |

*Aidin NasiriShargh - Last Update: June 2025*