

# RIA DOSHI

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## Experience:

### **The Code Detectives | Author • 2018-present**

- Wrote two novels in [book series](#) about two young girls who use AI to solve mysteries in their community
- Breaks “coders are nerds” stereotype and encourages youth to take on tech
- 150+ books sold with five-star ratings, available on Amazon, Barnes & Noble, and Walmart
- Interviewed live on KRON4 TV, featured in San Jose Mercury News, Top 100 Amazon Computer and Tech Education book

### **The Code Detectives AI Learning Platform | Inventor • 2019-present**

- Developed learning platform introducing technology and AI concepts to children through interactive lessons, games, puzzles, mysteries, characters delivered via three mediums: web, mobile, and books
- Patent 63/105,159 filed in 2020

### **Stanford Computer Science Department | Intern & Researcher • 2018-present**

- Worked on neural-network models for autonomous bots to enhance search-and-rescue missions (under Prof. Sadigh)
- Implemented AI algorithms on mobile Kuri robot with applications in improving elderly rehabilitation and care (under Prof. Bohg)
- Applied and evaluated several hand-tracking algorithms on videos to enhance VR & multisensory feedback (under Prof. Bohg)

### **Developer | Robot Learning Collaboration Platform • 2019-present**

- Sole developer of a multicampus initiative involving Facebook, Univ. of Washington, Univ. of Slovenia, Stanford (under Prof. Bohg)
- Coded [online platform](#) enabling AI researchers to share their efforts globally using MongoDB, JQuery, and PHP
- Integrated the platform with leading social media platforms including Twitter, Facebook, and LinkedIn
- Incorporated advanced features such as tagging, free-text-search, ad-hoc and rank-based sorting
- Used by 15,000+ people in 50+ countries

### **Alleviate | Founder & Developer • 2017-present**

- Developed [Alleviate](#), an award-winning iOS and Android app to help people with autism overcome challenges
- Downloaded and shared by 2,000+ people globally & garnered international recognition from media outlets such as TheCUBE

### **CodeBuddies Nonprofit | Founder & President • 2018-present**

- Founded [CodeBuddies](#), a nonprofit organization inspiring youth around the world to take on coding and AI
- Crafted free, online curriculum in technology and AI to address educational inequities exacerbated by COVID-19
- Online workshops, global challenges, and other outreach events have impacted 12,000+ youth in 40+ countries

### **AI4ALL | Student Researcher • Summer 2018**

- Selected into the AI4ALL program in 2018; created machine learning software correlating genes with lung and prostate cancer; used algorithms such as k nearest neighbors, k means, random hyperplane projection, and more to achieve a 96% prediction accuracy rate

### **MVHS Women in Artificial Intelligence Club | Founder & President • 2018-present**

- Foster enthusiasm in young women about artificial intelligence; hosted panel of women in AI speakers virtual event

### **MVHS App & Web Development Club | President • 2018-present**

- First female president of the club; lead team to develop curriculum in app and web development with emphasis on technology creation for social good

### **PixelHacks | Executive Director & President • 2018-present**

- Lead team to host the Bay Area's first all-female high school hackathon, managing all operations and sponsorship
- Supported by Google, Twitter, Facebook, and more

### **REWORK Conference, US House of Representatives | Speaker • 2019-present**

- Advocated for public policy responses on AI ethics/diversity and tech education inequities to members of the U.S. House of Reps.
- Invited to speak at the REWORK Deep Learning Conference as a part of a tech panel

## Awards & Honors:

### **24 Under 24 Global STEM Leader • 2020**

- Recognized globally for increasing diversity in STEM and using technology as a force for social good

### **VentureBeat Transform Women in AI Award Finalist • 2019**

- Youngest nominee honored alongside leading global CEOs, PhDs, and AI researchers for my research in AI and book series

### **United States Champion, Technovation Challenge / Congressional Recognition • 2018**

- Recognized globally for the impact of app Alleviate and powerful potential to help individuals with autism
- Received Congressional Certificate of Recognition for the app

### Awards & Honors (cont.):

#### American Computer Science League Winner • 2018

- Won fourth place out of top schools in the world invited to the All-Star contest in Rhode Island based on competitive computer theory and programming examinations

#### General Motors & Ashoka STEM for Changemaking Winner • 2019

- Recognized as one of the top 30 youth change-makers across the nation
- Won trip to GM headquarters in Detroit, MI to speak and received funding for CodeBuddies

#### National Winner @ National Center for Women in Technology • 2019

- Named top 10% of high school girls in technology in the U.S. for research work and app development

#### Gold Presidential Service Award • 2018

- Received for 100+ hours of service work to bridge educational inequities in technology and artificial intelligence

### Skills:

**Programming Languages** • *Java, Python, C, Swift, HTML/CSS, PHP, Javascript*

**Databases / Operating Systems** • *MongoDB, ROS, iOS, Android*

**Deep Learning Interfaces** • *Tensorflow, OpenAI Gym, Stable-Baselines*

### Extracurricular Courses (Coursera):

**Neural Networks & Deep Learning** • *Grade: A*

**Improving Neural Networks: Hyperparameter Optimization & Tuning** • *Grade: A*

**Structuring Machine Learning Projects** • *Grade: A*

### Press Links:

[KRON4 TV](#) [Mercury News](#) [TheCUBE](#) [AI4ALL Spotlight](#) [VentureBeat Press Release](#)