

# Derek Jeong

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## Education

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**Oregon State University** – Honors Bachelor of Science in Computer Science, GPA 3.86 2017 – 2021

- Research: Data Analysis and Visualization with Unreal Engine - URSA Engage 2019 with Dr. Raffaele de Amicis
- Thesis: Improve the Grasping Performance by Analyzing Target Objects with Computer Vision and Deep Learning Algorithm - Honors College Thesis with Dr. Cindy Grimm and Oregon State University Robotics team

## Technical Skills

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**Programming Languages:** JavaScript, TypeScript, Go, Python, PHP

**Frameworks & Tools:** React.js, Vue.js, Video.js, Next.js, Tailwind CSS, RESTful APIs

**Cloud & DevOps:** AWS (S3, RDS, Lambda, SQS), Docker, Git, Cron, CloudWatch

**Databases:** MySQL, MongoDB, RedShift

**AI/ML:** AWS SageMaker, OpenAI APIs, TensorFlow, PyTorch

## Experience

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**Software Engineer**, Ezoic Inc. – Carlsbad, CA March. 2022 – June. 2024

- Developed APIs in Go to manage video upload, processing, and analytics, enabling 10K+ creators to monetize content more efficiently.
- Designed and launched Humix, a video platform integrating Vue.js, Go, MySQL, and AWS—cut buffering by 30% and increased ad impressions.
- Leveraged AWS SageMaker and ChatGPT APIs to match videos with webpage topics, increasing relevance and boosting user retention by ~20%.
- Created microservices with Go, Lambda, and SQS, reducing upload latency by 40% and supporting scalable batch processing.
- Led DevOps support rotations, resolving critical issues via CloudWatch and Opsgenie to maintain 99.99% uptime.

**Frontend Developer**, Wizrds LLC. – Sacramento, CA June. 2021 – January. 2022

- Managed web development projects, optimizing cross-browser and multi-platform responsiveness using HTML/CSS and JavaScript.
- Optimized web development projects for cross-browser and multi-platform responsiveness using HTML/CSS and JavaScript.
- Implemented user-friendly reusable components and functionalities to mock demo designs on Figma by using React.js.
- Integrated MongoDB and Node.js to streamline backend communication, cutting API response time by 25%.
- Collaborated with UX/UI designers to implement UX/UI improvements, resulting in a more intuitive user interface.

## Projects

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**Humix.com | JavaScript, Vue.js, Go, AWS, MySQL, Video.js** 2022 – June.2024

- Built from scratch a video content platform enabling creators to upload, embed, and monetize videos.
- Engineered RESTful APIs in Go and managed video lifecycle (upload, processing, analytics).
- Used SageMaker for smart video matching and OpenAI APIs for automatic categorization.
- Managed cloud infra on AWS ensuring high availability and fast delivery with optimized DB queries.

**Check-crypto | JavaScript, React, Go, AWS** 2024 – Present

- Developed a web-based platform providing trust levels of cryptocurrencies for all users, acting as a scam checker.
- Implemented backend services using Go and AWS to analyze and verify cryptocurrency data.
- Designed and developed the front end with React.js to ensure a user-friendly interface.
- Integrated RESTful APIs to fetch real-time data on cryptocurrency legitimacy and potential scams.