

LUCCA PSAILA

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EDUCATION

University of California Riverside

B.S. in Computer Science - *Cum Laude*

June 2022

M.S. in Computer Science

June 2023

Dean's Honors List, Chancellor's Honors List, Thomas H. Payne Scholarship Recipient

TECHNICAL STRENGTHS

Languages JavaScript, Python, C++, HTML/CSS

Tools React, Node, Express, AWS, MongoDB, Git/Github, REST APIs

WORK EXPERIENCE

Graduate Teaching Assistant *UC Riverside, Bourns College of Engineering* January 2023 - August 2023

- Taught first Data Science Ethics course focused on bias in AI and ML, data privacy, and responsible development.
- Established course content covering important topics in web development, data science, and technologies like Python, Pandas, Node.js, React.js, and Scikit-learn.
- Fostered critical thinking and informed decision-making through discussions, group lab assignments, and challenging projects.

Software Engineering Intern *Rev.com, San Francisco, CA* June 2021 - August 2021

- Scaled Rev's platform to handle enterprise level customers through the implementation of user group management features generating 20% increase in positive customer reviews.
- Enhanced user experience during account creation on Rev's web application by employing C#, CSHTML, and TypeScript, leading to a 10% improvement in client retention.
- Developed and implemented UI improvements in internal testing services, later integrated into the main product.
- Managed bugs and upgrades effectively using Kanban, in collaboration with product management teams.

Research Developer *DeepInform, Riverside, CA* June 2020 - September 2020

- Created a web app for medical professionals, enabling easy sharing and editing of large tissue slide images.
- Expanded the backend with JavaScript and Django, optimizing performance for efficient image processing and analysis.
- Designed an integrated image gallery in user profiles, enhancing file visibility and improving the user experience.
- Leveraged AWS technologies, including RDS and S3, to optimize data storage for user accounts and image files, resulting in a 15% reduction in gallery page load times.

PROJECTS

[QandA Market](#) *Instantly book appointments with experts from around the world.* June 2022 - January 2024

- Developed a dynamic marketplace application utilizing the MERN stack, enabling experts across various domains to monetize their expertise through online consultations.
- Managed data storage and retrieval with MongoDB, ensuring robust and scalable database operations.
- Utilized Node.js with Express.js for backend development, efficiently managing URL routing and resource requests.
- Crafted an intuitive frontend user experience using React, integrating MUI for pleasing and consistent design elements.
- Enhanced application performance by integrating AWS S3 and CloudFront for image storage and retrieval, achieving a 50% reduction in user profile rendering time.
- Incorporated Stripe payments using their API with webhooks for real-time payment notifications and secure tokenization for card storage.

[ChatVac](#) *Bringing all your messages into one place.* June 2020 - September 2020

- Javascript and Python-based web application which combines both Slack and Discord APIs such that a user can fully access both services solely within their web browser.
- Implemented Redis Publish/Subscribe messaging system to connect APIs with server code.
- Stored messaging data from Discord and Slack in a SQLite3 database, and displayed using jQuery.
- Ran server side of application on an AWS EC2 instance and hosted client side using S3 and Route 53.

LEADERSHIP

The Association for Computing Machinery at UCR *President*

March 2020 - March 2021