

Arth Shukla

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EDUCATION

University of California, San Diego

September 2021 - June 2025

Bachelor of Science in Mathematics-Computer Science

GPA - 4.0

Sequoia High School

August 2017 - June 2021

IB Diploma Recipient, Honor Roll, Track & Field, Cross Country, Model UN, Debate Team

GPA - 4.6

Relevant Coursework -

Completed: Computer Organization and Systems Programming, Enumerative Combinatorics, Data Structures and Object-Oriented Design, Computer Science and Object-Oriented Programming - Java, Multivariable Calculus, Vector Calculus, Statistical Methods and Probability, Linear Algebra, Differential Equations, Networks and Digital Communications, Data Warehousing to Big Data

Planned for Fall 2022: Optimizations for Data Science I, Advanced Data Structures, Abstract Algebra I, and Physics/Mechanics I

EXPERIENCE

Bittner Development Co.

Bittner Development Group is an education technology company which creates interactives and products for clients like Norton, Barnes and Noble, SparkNotes, Thames and Hudson, and more.

Technologies Used: Web Development: React, SCSS, Node.js; DevOps: GitLab, Git, WSL; Scripting and Automation: TypeScript, JavaScript, Java; Development Standards: Web Content Accessibility Guidelines (WCAG) 2.1 AAA, Aria Authoring Practices Guide (APG), Norton Design System; Processes: Agile Methodology

Software Developer

August 2022 - Present

- Develop component library and enterprise web application 'Interactive Builder' using React and SCSS
- Manage DevOps and CI/CD pipeline using GitLab
- Continue roles from Software Engineering Intern position

Software Engineering Intern

January 2021 - August 2022

- Web development, QA, and devops of over 10 education interactive projects in React
- Manage and train two interns to complete projects using React and SCSS, GitLab, Git, and WSL
- Code projects in compliance of web content accessibility with WCAG
- Propose, lead, and develop internal and for-client automation projects using Node and native JavaScript

Media Group Intern

November 2019 - January 2021

- Code questions into over 15 textbooks on Norton's online textbook platform, PCAT, using HTML
- Independent project involving automation of over 10 spreadsheet and data entry tasks using Java improving efficiency by over 90%

Personal Web Development Projects

Technologies Used: Web Development: TypeScript, React, Storybook, SCSS; DevOps: Git, GitHub Pages, GitHub Packages; Development Standards: Web Content Accessibility Guidelines (WCAG) 2.1 AAA, Aria Authoring Practices Guide (APG)

Independent Developer

January 2022 - Present

- GitHub: <https://github.com/arth-shukla>
- Code mobile-compatible Dice Roller web app with React and SCSS, accessible by WCAG 2.1 AA standards and publish to GitHub Pages : <https://arth-shukla.github.io/dice-roller>
- Create Icon Library with React TypeScript and SCSS, publish to GitHub packages: <https://github.com/arth-shukla/my-icons>; code demos and documentation published on GitHub Pages: <https://arth-shukla.github.io/my-icons-documentation>

ACM AI UCSD

ACM AI is UCSD's largest AI student org which fosters a community for those interested in AI and research.

Technologies Used: AI/ML Workshops and Projects: Python, PyTorch, TensorFlow, Google Colab; Web Development: TypeScript, React, LESS

Board – Director of Events

May 2022 - Present

- Lead team of 7 event leads in creation of competitions, workshops, and socials related to ML/AI
- Coordinate with marketing and development teams to market events and create competitions

Board – Developer

April 2022 - Present

- Front-end website and AI competition development using React and TypeScript and LESS for ACM AI
- Develop component library, create and alter pages, and manage issues/pull requests on GitHub

Board – Event Lead

January 2022 - May 2022

- Ideate, create, and host workshops on NLP, deep learning, and ML topics
- Develop and organize competitions run by ACM AI (100-200 submissions on average)
- Coordinate with different parts of ACM AI Board (marketing, social, and other event leads) to host workshops and social events
- Mentor intermediate and beginner ACM Projects teams in developing AI/ML projects
- Promote Diversity, Equity, and Inclusion by planning URM-focuses events, implementing inclusive Discord server management, and working to make AI more accessible

Machine Learning Engineer

September 2021 - January 2022

- Create model to convert human faces to Cat-Human hybrid using DCGAN, PatchGAN, CycleGAN, and StyleGAN
- Coordinate with team of 3 front- and back-end devs to implement model into user-friendly tool

SKILLS

- **Programming Languages** - TypeScript, JavaScript, Node, React, Java, Python, Ruby, Bash, SCSS, LESS, HTML5 and CSS3, C, R
- **Programs and Software** - Git, GitHub, GitLab, Visual Studio, WSL, Storybook, Android Studio, Matlab, Microsoft Office, Microsoft Excel, Microsoft Powerpoint
- **Languages** - Fluent in English and French, Spoken Hindi

ACTIVITIES & LEADERSHIP

Inspirit AI and Summer Stem Institute 2020

Program Participant and Inspirit AI End-of-Program Project Lead - Learn AI Fundamentals (neural nets and backprop, computer vision, etc) and develop model to identify pro- and anti-refugee tweets using sentiment analysis

Sequoia Robotics

Club President (August 2020 - June 2021); Team Head and Lead Software Engineer - Organize club participation in tournaments and lead Sequoia's Purple Pi team

Cañada College Mathematics Instructional Assistant

Calculus I Instructional Assistant - Design and grade 5 bi-weekly tests and final exam and weekly homework assignments, Tutor 26 students via Zoom and email for 3 hrs/week

STEM Tutoring

Advance Math Tutorials - Lecture and tutor groups of upwards of 20 AP Calculus and IB Math students

AVID Program Tutoring - Lecture and tutor groups of 7 first-gen students at varying levels of Math, Physics, and Chemistry

Redwood City Library Tutoring - Tutor groups of 5 elementary and middle school students in Math and Science