

# MAX FU

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## EDUCATION

<b>University of California, Merced</b> <i>Bachelor of Science in Computer Science and Engineering</i> <b>GPA:</b> 3.6   <b>Awards:</b> 4x Dean's List, 2x Chancellor's List   <b>Relevant Coursework:</b> Data Structures, Algorithms, Computer Organization & Assembly, Advanced Programming, Discrete Mathematics, Linear Analysis, Linear Algebra, Vector Calculus, Probability & Statistics	Aug 2023 – May 2027 Merced, CA
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## WORK EXPERIENCE

<b>Software Engineer Intern</b> <i>Machyna, Inc.</i> <ul style="list-style-type: none"><li>Reduced file upload and retrieval errors by 20% by implementing a serverless file-management solution on <b>AWS</b></li><li>Decreased deployment time and downtime releases by 75% through <b>CI/CD</b> automation using <b>Terraform (IaC)</b></li><li>Redesigned and implemented a responsive landing page using <b>React, Next.js, TypeScript, and Tailwind CSS</b></li><li>Constructed an AWS cloud solution utilizing services such as <b>AppSync, Lambda, S3, Aurora, and IoT Core</b></li></ul>	May 2025 – Aug 2025 San Diego, CA
<b>Undergraduate Teaching Assistant</b> <i>Electrical Engineering Programming - Prof. Ayush Pandey</i> <ul style="list-style-type: none"><li>Facilitated lectures for 150 students by demonstrating Python and MIPS Assembly on open-circuit programming</li><li>Lectured for 65 hours over 15+ weeks, addressing questions related to circuit design and programming</li><li>Increased lab participation by 20% through creating engaging and interactive coding exercises</li></ul>	Aug 2024 – Dec 2024 Merced, CA
<b>Undergraduate Research Assistant</b> <i>LLM-based Autograder - Prof. Ayush Pandey</i> <ul style="list-style-type: none"><li>Developed an autograder that increased average scores by 15% providing enhanced grading and feedback response</li><li>Reduced compute within each epoch by 15% by implementing LoRA, a parameter-efficient fine-tuning technique</li><li>Improved autograder's efficiency by 50% through model fine-tuning using a custom JSON data pipeline</li></ul>	Oct 2023 – Oct 2024 Merced, CA
<b>ACM AI Lead</b> <i>Association of Computing Machinery</i> <ul style="list-style-type: none"><li>Organized and taught bi-weekly workshops to 50 active club members on <b>Deep Learning and Machine Learning</b></li><li>Hosted Deep Learning workshops on creating <b>MLP, Attention Heads</b>, and a simple <b>Language Model</b> from scratch</li></ul>	Dec 2023 – May 2024 Merced, CA

## PROJECTS

<b>Yagmi</b>   TypeScript, Next.js, React, PostgreSQL, Express.js, TailwindCSS, Drizzle ORM <ul style="list-style-type: none"><li>Built a subscription-based <b>SaaS</b> web app for creating personalized and context-aware AI mentors</li><li>In 24 hours launching on Fizz, 250+ students signed up, got tailored career and learning guidance</li><li>Designed and implemented a typed <b>REST API</b> with <b>Express</b> and <b>Drizzle ORM</b> over <b>PostgreSQL</b>, modeling users, mentors, chats, and messages to support long-lived mentor sessions</li></ul>	
<b>Obscuri</b>   React, TypeScript, Rust, Tauri, Tailwind CSS, HTML <ul style="list-style-type: none"><li>Developed a <b>full-stack</b> desktop app providing an infrastructure to make queries without any noise or trace</li><li>Launched on X and Reddit, attracting 500+ unique visitors within 24 hours with 50 active users</li><li>Eliminated query errors by 100% through implementing OCR-powered screenshot parsing through OpenAI API</li></ul>	
<b>Machyna</b>   Next.js, React, TypeScript, Tailwind CSS, Figma <ul style="list-style-type: none"><li>Decreased bounce rate by 25% and increased engagement by improving UI/UX with a modern responsive layout</li><li>Optimized performance and user experience, achieving 40% faster load times using modular components and SSR</li><li>Redesigned website using <b>Next.js, React, TypeScript, and Tailwind CSS</b>, establishing a stronger media presence</li></ul>	

## TECHNICAL SKILLS

<b>Languages:</b> TypeScript, JavaScript, Python, Java, C++, C, HTML, CSS, GraphQL, SQL, NoSQL, MIPS Assembly
<b>Frameworks:</b> React, Next.js, Tauri, Express, Hono, Tailwind CSS
<b>Cloud Services:</b> AWS (AppSync, Lambda, S3, EC2, Aurora, RDS, VPC, IAM, DynamoDB, IoT Core, CloudWatch)
<b>Machine Learning:</b> PyTorch, TensorFlow, Pandas, NumPy, Matplotlib, Seaborn, scikit-learn, Hugging Face
<b>Developer Tools:</b> Git, GitHub, Gitea, Docker, Terragrunt, Terraform, Redis, TMUX, NGINX, AWS SDK, OpenAI SDK
<b>Concepts:</b> Software Engineering, Object-Oriented Design, Databases, Agile, Full Stack, Open Source, Frontend, Backend, Web Development, Version Control, Unit Testing, Build Automation, SQL, NoSQL, HTTP, TCP/IP, UDP, REST API, Proxies