Anusha Tuladhar

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Technical Skills

Languages & Frameworks: JavaScript, React, Redux, Ruby, Ruby on Rails, Python, Node.js, HTML, CSS, SQL, jQuery, Slang
Databases: PostgreSQL, MongoDB, MySQL, Mongoose
Tools & DevOps: Git, GitLab, Docker, Prometheus, Amazon S3, PuTTY , Linux
Other: CI/CD, REST APIs, JSON, Chart.js

Software Engineering Experience

Software Engineer

Goldman Sachs – New York, NY
Feb 2023 – Jan 2025
- Engineered high-performing systems for loading large-scale datasets; improved feed processing speed and reduced memory use through optimized resource allocation.
- Modernized legacy infrastructure by migrating critical processes (e.g., RHEL6 to RHEL7), and improved system deployment using Linux and PuTTY .
- Built tools in Python and JavaScript to identify and decouple dependencies, enabling database decommissioning and system simplification.
- Collaborated on a highly praised product delivery, meeting client expectations and receiving executive recognition.
- Monitored and debugged production issues using Prometheus; ensured data reliability and system uptime.
- Maintained rigorous testing (unit, regression) standards and participated in CI/CD pipelines through GitLab.
- Managed critical trade flows and downstream data validation to avoid processing delays.

Software Projects

AtSeedWorld | React, Redux, Ruby on Rails, PostgreSQL, Amazon S3
- Integrated frontend and backend systems by utilizing JBuilder and AJAX to make API calls.
- Enhanced user experience by implementing React Hooks to enable dynamic, filtered search functionality.
- Optimized application performance by using Redux mapStateToProps to retrieve data, minimizing redundant AJAX queries.
- Improved security and user flow by implementing conditional rendering and authentication checks with JavaScript to control user access.

GardenCalendar | JavaScript, Vanilla DOM, HTML5, CSS, Chart.js
- Enhanced user experience by implementing Chart.js to create intuitive graphs that provide visual guidance on plant growth and cultivation.
- Engineered dynamic data filtering using Vanilla DOM to present users with tailored planting advice based on their requests.
- Developed interactive user interfaces, building fully functional modals with CSS and HTML to display specific, detailed instructions for each plant.

GlobalCuisine | JavaScript, MongoDB, Amazon S3, HTML5, CSS
- Engineered the backend infrastructure by creating and managing a MongoDB database to support frontend data requests.
- Developed a secure image-uploading pipeline using Amazon S3 and Multer to enable users to upload pictures directly to the application.
- Secured user data by implementing BCrypt hashing to protect passwords and ensure robust user authentication.

Previous Experience

Biological Scientist / QA Lead
Pacific Architects and Engineers / DHS – San Francisco, CA
Feb 2016 – July 2021

Molecular Biologist
Aug 2014 – Jan 2016
- Identified and characterized pathogenic threats by performing fluorogenic 5' nuclease qPCR assays on biological samples.
- Led the verification of positive reactions to specify pathogenic agents, and ensured real-time communication of results to national response networks and the CDC.
- Directed all sample logistics, including real-time tracking, accessioning, and managing a comprehensive database for retrospective analysis.
- Maintained data integrity by filing daily incident logs and preparing real-time reports on missing samples.
- Ensured lab compliance with internal and DHS protocols through regular inspections, audits, and quarterly staff competence tests.
- Oversaw laboratory operations during high-volume national events, managing additional staff and troubleshooting equipment like the Applied Biosystem 7500 Fast DX.
- Maintained and calibrated key laboratory equipment, ensuring optimal performance and troubleshooting issues as they arose.

Research Associate
Zyomyx – Fremont, CA
Sep 2013 – Jun 2014
- Synthesized and purified nano/micro particles, including Au and CD4 magnetic beads, for point-of-care medical devices, while ensuring all processes followed cGMP and GLP standards.
- Executed a full range of biochemical preparations, from creating buffers and reagents to performing protein purification and streptavidin synthesis.
- Conducted rigorous in-process QC testing, utilizing methods such as SEM/TEM for particle analysis and Flow Cytometry to validate assay performance.
- Trained staff on manufacturing equipment, cGMP procedures, and in-process quality control while creating and maintaining essential documentation, including SOPs and Batch Records.

Manufacturing Associate
Life Technologies – Pleasanton, CA
Jan 2012 – Jul 2013
- Synthesized DNA and RNA using Jurassic synthesizers, and executed Ion-torrent and Exome sequencing for advanced genetic analysis.
- Conducted multi-step purification using various methods like gas phase apparatus, normal phase liquid chromatography, and HPLC.
- Operated advanced equipment including spectrophotometers and TECAN to ensure the quality and purity of synthesized products.

Education
Software Engineering
App Academy – Full Stack Software Development Program
B.S. in Biological Sciences
University of California, Davis