

# ASHWIN KUMAR UMA SANKAR

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## SUMMARY

Software engineer with expertise in Angular, Node.js, and cloud infrastructure. Consistently delivered of scaling systems, automating workflows, and optimizing UI/UX for high-performance applications. Passionate about building scalable, secure, and efficient software solutions.

## WORK EXPERIENCE

### OREGON STATE UNIVERSITY – COLLEGE OF ENGINEERING

Remote

#### Web Developer

Oct 2024 - Present

- Revamped dynamic websites with **Angular 14** and **Drupal 10**, streamlining data structures for seamless cross-device experiences. Collaborated with remote teams to redesign 2025 web pages, using responsive CSS to improve load times by 40% and boost session durations by 50%, and reducing bounce rates by 25%, leveraging Monsido insights.

### AGROSPERITY KIVI – AGRI-FINTECH

IITM Research Park, India

#### Associate Software Developer

Jun 2022 - Aug 2023

- Played a key role as a founding engineer, scaling the customer base from **300 to 10,000** by designing and deploying a highly scalable server architecture with **VPCs, Nginx, PostgreSQL, and firewall policies**. Automated workflows and deployed Grafana for real-time performance monitoring. Enforced security best practices by disabling root access, enforcing SSH key authentication, and creating startup scripts, enabling a seamless product launch.
- Developed **20+ modular Angular applications using microfrontend architecture for scalability and maintainability**. Optimized GitLab CI/CD pipelines with GCP infrastructure, achieving 99.9% uptime and reducing deployment times by 30%. Automated environment setups for Prod, UAT, and Dev using Docker and GitLab CI/CD, improving deployment efficiency. Enhanced PostgreSQL performance with indexing and query tuning, built data-fetching pipelines, and integrated Grafana for log analysis and database validation. Streamlined build and deployment processes with GitLab Runner scripts, improving version control and multi-repository management.
- Engineered **end-to-end credit applications and operational modules**, connecting frontend systems with financial institutions. Refined document processing workflows with OCR technology, resolved secure image upload issues, and spearheaded the UI/UX redesign for Version 2, boosting user satisfaction and performance.

### HAKATOURS – New Zealand (Internship)

Remote

#### UI/UX Design Intern

Mar 2020 - Oct 2020

- Redesigned an eCommerce tourism platform by leveraging user research insights, **A/B testing, and adaptive design strategies to elevate UI/UX**. Refined responsive layouts using flexible CSS grids, ensuring seamless cross-device experiences. Implemented Stripe and PayPal payment gateways, resolving checkout issues and reducing cart abandonment by 25%. Fixed critical bugs and elevated mobile usability, driving a 20% increase in bookings and improving conversion rates.

## SKILLS

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

**Frameworks & Tools :** Angular, React, GitLab CI/CD, Django, Firebase, Bash, Git, Docker, RabbitMQ, SonarQube, Sentry

**Platforms & Databases :** GCP (Compute Engine, Cloud Watcher), AWS (EC2, Lambda, Dynamo DB, S3), PostgreSQL, MongoDB

## CERTIFICATIONS

- Cyber Security & Forensics Graduate** (Wireshark, QRadar and SolarWinds) **2022**
- Google Cloud Essentials** Completed foundational training in Kubernetes, Google APIs, WAF, and cloud monitoring tools **2022**

## ACADEMIC PROJECTS

### SCARR Open-Source Framework

2024

- Researched, optimized, and accelerated **Python-based algorithms (LRA, SNR)** under Professor Vincent Immler at Oregon State University, achieving a 30% performance better through multicore profiling, bottleneck analysis, and computational enhancements using **Numba, NJIT, and Intel VTune for efficient execution**.

### DeepSeeker Scraper & AI v1 – Automated Stack Overflow Answer Aggregator

2025

- Developed a web scraper (Selenium, Python) to extract top-voted **Stack Overflow, Medium** answers, automating coding query resolution. Integrated **DeepSeek RAG** for AI-enhanced responses and query optimization for improved accuracy. Built an interactive UI with Streamlit for seamless user experience and implemented caching to reduce redundant queries, high-quality solutions for developers.

### Library Content Manager for Media Hub

2024

- Developed a **high-performance library content system (Node.js, Express, MongoDB, RabbitMQ)** with fast uploads, metadata management, and async file previews. Designed a microservices architecture to decouple API and processing, enabling scalable metadata storage. Improved system scalability and deployment with Docker & Docker Compose.

## EDUCATION

**MEng in Computer Science** | Oregon State University

GPA: 3.7/4.0

Sept 2022 - Mar 2025

**BTech in Computer Science** | Hindustan Institute of Technology and Science

CGPA: 8.6/10.0

Jul 2018 - Jun 2022