

SUBRAT PANDEY

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SKILLS

- Technical Languages:** Python, Java, C#, JavaScript, TypeScript, SQL
 - Framework/Libraries:** Spring, React.js, Node.js, Angular, Django, Flask
 - Dev Tools:** VS Code, Git, Android Studio, Figma, Slack
- Database:** MongoDB, MySQL, Spanner
 - Cloud Technologies:** AWS
 - Web Technologies:** HTML5, CSS, Bootstrap

WORK EXPERIENCE

ALGORIZIN <i>Software Developer</i>	Remote, USA Feb 2024 – Present
<ul style="list-style-type: none">Engineered the Self-Employed OPT Eligibility Checker Tool, an interactive application utilizing Next.js, Express.js, and TypeScript to evaluate candidates’ eligibility for Self-Employed OPT via an advanced questionnaire, processing over 850 assessments within two months post-deploymentBuilt an automated notification system to alert candidates about their eligibility status, leveraging Amazon SES for email alerts and Firebase Cloud Messaging (FCM) for push notificationsRedesigned the dashboard interface using Tailwind CSS within a Next.js and TypeScript framework, enhancing site responsiveness by 30% and increasing user engagement by 20%Collaborated with a globally distributed team of 14 developers, product owners, and UI/UX designers following the Agile Scrum methodology	
GOOGLE , <i>Google Cloud Engineering Team</i> <i>Software Engineering Intern</i>	Sunnyvale, CA May 2023 – Aug 2023
<ul style="list-style-type: none">Authored and contributed to 2 technical design documents leading to the completion of both internship projectsDeveloped a web performance monitoring system for approximately 2000 pages in Google Cloud by defining performance budgets, saving user-defined budgets for different performance metrics, and establishing a mechanism to compare budgets with page audit results through the Lightrider toolIncorporated alerting system by using IssueTracker API to inform cloud engineers to perform decisive, timely actions during budget failureUtilized Angular, TypeScript, Boq, & dependency injection to integrate Happiness Tracking Survey in Google Cloud’s Content Management System for approximately 54,000 cloud employeesFormed survey questions; implemented a survey through Google’s User Interface “Listnr”; collaborated with two product managers to analyze responses	
GOOGLE , <i>Merchant Communications Team</i> <i>STEP Intern</i>	Mountain View, CA May 2022 – Aug 2022
<ul style="list-style-type: none">Engineered Flume (Java) data pipeline using ProtoBuf, Borg, GCL, Mendel, and Spanner to track merchant trends over time for estimated 500,000 US merchantsVisualized estimated 3 million trends data into dashboards by writing scripts using GoogleSQL dialect and F1 query engineInnovated and standardized a procedure for future developers to track data from millions of global merchants, enhancing the Google Shopping platform experience by 7% and boosting revenue by 15 million dollars	

PROJECTS

FISK SERVE , <i>Full-Stack Engineer</i>
<ul style="list-style-type: none">Developed a functional web app for Fisk University’s Dining Hall in which students and faculties can browse available food items according to mealtime using HTML 5, Tailwind CSS, ReactJS, NodeJS, RESTful APIs, & MongoDBIntegrated a feature to display the nutritional values (carbohydrate, fat, and protein content) of food items based on portion size, updating the menu daily through Node CronEnabled an interactive chat feature via WebSocket for personalized chef feedback and dietary-specific ordering, elevating special dietary requests by 50%
EPSILON PREP , <i>Product Manager, Developer</i>
<ul style="list-style-type: none">Created a web app using HTML 5, CSS, Bootstrap 5, & JavaScript that allows undergraduate international students to search for universities in the US, UK, and CanadaCollaborate with a team of 3 to build a virtual assistant that assists applicants in shortlisting college based on scholarship, location, test scores, and relevant application materialsSupported 200 applicants of which 80+ got accepted into various colleges with decent financial aid averaging 22,000 US dollars per student
NFL+ MOMENTS , <i>ML Engineer</i>
<ul style="list-style-type: none">Designed a video recommendation algorithm using Python and Jupyter Notebook for NFL+ subscribers, employing TF-IDF vectorization and cosine similarity to tailor content recommendations based on individual preferences for teams and playersImproved algorithm accuracy and user satisfaction by integrating a weighted scoring system that considers similarity scores, user likes, video viewing durations, and includes randomness for content diversity

EDUCATION

FISK UNIVERSITY <i>Bachelor of Science, Computer Science</i> GPA: 3.95/4.0	Nashville, TN Aug 2020 – May 2024
AWARDS/LEADERSHIP: HBCU Battle of the Brains 2024: US Champion ; Equinix Fisk Hackathon: 2nd Position ; IBM: Z Ambassador; Ernst & Young: Expedition EY scholar; Emerge.io: Demo Director/Community Organizer; Global Peace Young Leaders: President	