ESHWAR ESARAPU
SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY:

Results-driven Software Engineer with over 2 years of experience in developing dynamic web applications utilizing Angular, JavaScript, and PostgreSQL. Recognized for delivering robust solutions that enhance operational efficiency for organizations and their agents nationwide. Proficient in full-stack development, with hands-on expertise in React, Python, and Django. Committed to embracing new challenges and continuously expanding technical skills to drive innovation and growth. Passionate about leveraging experience and enthusiasm as a Software Developer to make a meaningful impact on exciting projects.

EXPERIENCE

Software Engineer | Digit Insurance
2023 – CURRENT

Projects:

1. Digit Corporate Portal.
   a. **Overview**: Developed a fully dynamic web portal from scratch for Corporate Group Health Insurance policies. The platform features a flexible architecture where all fields that need to be rendered in the UI, such as company name, date of incorporation, and industry type, are stored in a database. These fields are fetched via an API and rendered dynamically in the UI. This design allows for seamless addition of new fields or alteration of existing field types; by simply updating the database, the portal automatically renders the new fields without requiring any code changes. Utilizing Angular, I ensured the portal delivered an interactive and user-friendly experience for both employers and employees.
   b. **Technologies Used**: Angular, JavaScript / typescript, PostgreSQL, RESTful APIs
   c. **Roles and Responsibilities:**
      i. Developed the Digital Insurance Portal from scratch, ensuring a robust and scalable architecture.
      ii. Collaborated closely with the business team to gather and analyze requirements, translating them into actionable features and improvements aligned with organizational goals.
      iii. Contributed to the architectural design of the portal, enabling dynamic management of fields, field types, and dropdown values stored in the database.
      iv. Implemented a dynamic user interface that fetches and displays data from the database, allowing for real-time updates and modifications without code changes.
      v. Integrated user authentication using Keycloak to ensure secure access and management of user credentials.
      vi. Developed and integrated multiple insurance products, such as GTL and GCP, facilitating policy issuance to other organizations.
      vii. Designed and maintained a flexible database schema to support dynamic field management and ensure efficient data retrieval.
      viii. Implemented security best practices to protect sensitive user data and ensure compliance with industry standards.
      ix. Conducted rigorous testing to validate features and maintain high code quality, ensuring a reliable user experience.
      x. Mentored junior developers, providing guidance and support to ensure they overcome blockers and successfully accomplish their tasks

2. **Digit Icon Product**:
   a. **Overview:** Developed the Digit ICON project, a non-linked, non-participating individual life insurance savings plan. Utilizing the same dynamic architecture as previous projects, I built this application from scratch using Angular, allowing for real-time retrieval of fields from the database and dynamic rendering in the UI. The portal provides a secure and stable investment option, enabling agents across PAN India to issue policies efficiently.
   b. **Technologies Used**: Angular, JavaScript / typescript, PostgreSQL, IBM DB2 RESTful APIs
   c. **Roles and Responsibilities:**
      i. Developed the Digit ICON project from scratch, ensuring a robust and scalable application architecture.
      ii. Leveraged a dynamic architecture to retrieve fields from the database and dynamically render them in the user interface using Angular.
      iii. Collaborated with stakeholders to gather and analyze requirements, translating them into actionable features that align with product goals.
      iv. Ensured an intuitive and user-friendly experience for agents, enabling efficient policy issuance across PAN India.
      v. Conducted comprehensive testing, including unit and integration tests, to validate features and ensure high code quality.
      vi. Created and maintained detailed documentation for the codebase, APIs, and user guides to support future development and onboarding.
      vii. Analyzed application performance and implemented optimizations to enhance efficiency and responsiveness.
      viii. Analyzed production logs to identify and resolve issues, providing instant fixes to ensure uninterrupted service.
      ix. Mentored junior developers, providing guidance and support to ensure they overcome blockers and successfully accomplish their tasks

3. **Digit Glow Product**
   a. **Overview:** Developed the Digit Life Health Glow Policy project, a health insurance application designed to provide essential coverage and wellness features. Utilizing the same dynamic architecture as previous projects, Contributed to the development of the Digit Life Health Glow Policy project and built this application from scratch using Angular, allowing for real-time retrieval of fields from the database and dynamic rendering in the UI. This setup enables agents across PAN India to efficiently issue policies and manage client data.
   b. **Technologies Used**: Angular, JavaScript / typescript, PostgreSQL, IBM DB2 RESTful APIs
   c. **Roles and Responsibilities:**
      i. Engineered the Digit ICON project from the ground up, establishing a robust and scalable architecture.
      ii. Implemented a dynamic system for retrieving database fields and rendering them in the user interface using Angular.
      iii. Engaged with stakeholders to gather requirements, translating insights into actionable features that meet product objectives.
      iv. Designed a seamless and intuitive user experience for agents, streamlining the policy issuance process across PAN India.
      v. Monitored production logs to diagnose issues and deliver immediate solutions, ensuring continuous service availability
      vi. Mentored junior developers, providing guidance and support to ensure they overcome blockers and successfully accomplish their tasks

4. **Digit Reusable E-Proposal Video Verification Form**:
   a. **Overview:** Developed the E-Proposal Video Verification project from scratch, a customer-facing portal integrated across all Digit products. This portal requires users to record a video before the policy issuance process. The project involved extensive research and development to ensure user compliance, implementing features to block access if camera permissions are denied or if the camera is obstructed, preventing a clear view of the user's face. The application is designed to work seamlessly across multiple platforms, including mobile, iOS, MacBook, and Windows, and supports various browsers. Additionally, integrated face detection technology to verify the user's presence in front of the camera during the recording process.
   b. **Technologies Used**: Angular, JavaScript / typescript, Tensorflow.js / Blazeface model, RESTful APIs
   c. **Roles and Responsibilities:**

i. Engineered the E-Proposal Video Verification portal from the ground up, ensuring a robust and user-friendly application.
ii. Developed the application to function across multiple platforms (mobile, iOS, MacBook, Windows) and various web browsers.
iii. Implemented logic to restrict user access based on camera permissions, ensuring compliance before the policy issuance process.
iv. Integrated advanced face detection technology to confirm the user's presence and ensure visibility during video recording.
v. Designed an intuitive user interface that guides users through the video recording process, enhancing the overall experience.
vi. Conducted extensive R&D to identify and resolve potential issues related to camera access and user visibility, ensuring a smooth user journey.
vii. Worked closely with product and business teams to gather requirements and align features with organizational goals.

Graduate Trainee Engineer - Technology | Digit Insurance
JULY 2022 – JULY 2023
Projects:

1. **Digit Corporate Portal**:
   a. **Overview:** Developed a dynamic web portal from the ground up for Corporate Group Health Insurance policies. The platform features a flexible architecture that allows all necessary fields—such as company name, date of incorporation, and industry type—to be stored in a database. These fields are retrieved via APIs and rendered dynamically in the UI. This design facilitates the seamless addition of new fields or modifications to existing field types, enabling updates without requiring code changes. By leveraging Angular, contributed to a team to create an interactive and user-friendly experience for both employers and employees.
   b. **Technologies Used**: Angular, JavaScript / typescript, PostgreSQL
   c. **Roles and Responsibilities:**
      i. Built the Digital Insurance Portal from scratch, establishing a robust and scalable architecture.
      ii. Played a key role in the architectural design of the portal, enabling dynamic management of fields, field types, and dropdown values within the database.
      iii. Developed a dynamic user interface that retrieves and displays data from the database, allowing for real-time updates and modifications without code alterations.
      iv. Designed and maintained a flexible database schema to support dynamic field management and enhance data retrieval efficiency.
      v. Conducted comprehensive testing to validate features and ensure high code quality, providing a reliable user experience.

Software Development Engineer – Full Stack Intern | BlackX
SEPTEMBER 2021 – MAY 2022
developing front end application using React, React Query, HTML, CSS and Bootstrap. writing unit tests. API Development using Python/Django Application Deployment using AWS EBS, S3, RDS and Amplify. Create CI/CD pipeline. lead a small team of developers and few marketing people.

Software Development Engineer – Intern | BlackX
MARCH 2021 – JUNE 2021
As a Software Development Engineer at BlackX, I utilized Python and Django to implement new features, develop APIs, and troubleshoot bugs in the backend. I leveraged JavaScript and React to build responsive and user-friendly front-end interfaces. Additionally, I worked on API integrations, including Razorpay, enhancing payment processing capabilities. This internship provided me with valuable experience using tools such as Postman and AWS, significantly improving my debugging skills and overall work efficiency.

Project Intern | Copyright Integrity International

JULY 2020 – SEPTEMBER 2020

CII is an intellectual property rights management organization focused on the protection of online content. CII works with sports leagues, VOD content producers, national associations, broadcasters and other rights holders to protect, enforce and monetize rights on the Internet. my role as a project intern was based on anti-piracy processes associated with online copyright protection, which included, monitoring and identification of online piracy in relation to archival coverage of protected content on behalf of prominent broadcasters and rights holders.

EDUCATION

B.Tech Electronics and Communication Engineering | CMR University SoET

AUGUST 2018 – MAY 2022

9.24 CGPA

Pre University | Narayana PU Collage

APRIL 2017 – MAY 2018

86.5 %

LANGUAGES AND FRAMEWORKS

· JavaScript
· Python
· React.js

· Angular
· Node.js
· Bootstrap

· PostgreSQL
· Express.js
· HTML / CSS

PUBLICATIONS:

1. Contributed a chapter titled "A Healthcare Revolution in Cross Domain Applications Using Advanced Computational Techniques" in book Intelligent Decision Support System for IoT-Enabling Technologies: Opportunities, Challenges and Applications, published by nova science publishers 2024.
2. Contributed a chapter titled "Recent Advancement in Emergency Vehicle Communication System Using IOT" in book IoT and Big Data Analytics for Smart Cities, A Global Perspective, published by routledge taylor & francis group 2023.

PROJECTS:

1. A Web Page developed for the company Civil Material Testing Laboratory as a part of my freelancing project built using React, hosted in netlify
   https://www.cmtlbengaluru.com/

CERTIFICATIONS:

1. Neural Networks and Deep Learning · An online non-credit course authorized by DeepLearning.AI and offered through Coursera https://coursera.org/share/d9e9b390574d7427f7561cd8c79e19b0
2. Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization · An online non-credit course authorized by DeepLearning.AI and offered through Coursera https://coursera.org/share/4db6c2286763a6a3ee50ac06367df45e
3. Front-End Web UI Frameworks and Tools: Bootstrap 4 · An online non-credit course authorized by The Hong Kong University of Science and Technology and offered through Coursera https://coursera.org/share/d558d6a739b42ae7f1a9957ddb7e9ce3