Fullstack Engineering

Level/Skill	Product Output	Data structures/Performance	Security	Communication/Writing	Networking	Fullstack Engineering	Tooling
1	Collaborates with product through designs, mockups, and demos of product features before implementation.	Demonstrates good understanding of basic data structures like hash tables, linked lists, and trees. Can reason about algorithm complexity. Applies relevant data structures in day to day activity. Can implement a production quality software - it might be not the most efficient or secure, but correct.	Understands basics of web security (can configure TLS on a standalone web server like nginx).	Reports progress on a regular basis as required by the team's operational requirements. Actively solicits feedback. Participates on interview panels.	Understands and reasons about browser networking concepts. Understands common networking issues and can troubleshoot issues using the developer console.	Understands and can write HTML.	Understands and can use build tools (like npm and yarn), Docker, and Makefiles.
2	Can write high quality user and product focused documentation.		Understands how to utilize browser security features (like headers and cookie attributes) to secure web applications.	Provides constructive review on peers' code and design. Helps new team members during their first weeks.		Understands how to utilize Javascript, CSS, and DOM knowledge to write frontend applications.	Understands and can use transpilers (TypeScript to Javascript) and SPA frameworks (React, Angular). Can leverage components and styles from third-party libraries to implement designs.
3	Collaborates with the team to scope requirements, based on good understanding of existing longer term product vision and estimates of the system design of a feature of a product.	dling and event propagation. Understands the use and implications of clo-	Can use frameworks to mitigate common attack vectors for server side (like secure password storage) or client side web applications (like XSS, CSRF, and SSRF) security vulnerabilities.	Supports less experienced peers' technical skills, answering questions and being a resource. Documents and improves team practices.	Understands scalability and resilience aspects of practical implementation of systems leveraging networking. Frontend designs are informed by scalable backends, networking techniques such as pagination, connection pooling, backpressure and other aspects of the application design.	frontend and backend components. Understands web application session and state management techniques. Senior engineers are not expected to find any faults or provide any further sugges-	Strong understanding of CSS and Type-Script. Can build and style components to spec without leveraging third-party libraries.
4	lated feature/improvement that measur-	Can profile web applications and understands how to minimize webpage rerendering and painting.	Understands and can implement mitigations for common attack vectors for server side (like secure password storage) or client side web applications (like XSS, CSRF, and SSRF) security vulnerabilities from scratch. Can build secure systems that will pass quality security audit that will uncover few to no critical system design errors.	livers tech and lightning talks represent-		Understands how to build consistent end- to-end user experiences. Understands principals of information architecture. Can write data-race and deadlock free code. Can implement safe and concurrent and/or parallel systems using minimum amount of shared state, granular locking - systems that are easy to read, extend and troubleshoot.	package. Understands when it is appropriate to leverage advanced TypeScript
5	uct line, like native applications, or significant part of the product to deliver it to	about the performance of web applica-		Writes advanced technical articles/blog posts, gaining significant industry traction or delivers technical talks on major conferences representing the company's vision.		Applies system level design to deliver new products or significant new components of an existing product to the market.	
6		Designs new data structures and algorithms solving relevant business problems and creating competitive advantage for the company.		Produces peer-reviewed research papers or patent applications.			