Ankit Ahuja
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http://ankitahuja.com

Experience

- **Grammarly, New York**   August 2022 - Present
  Staff Software Engineer

  - Led frontend technical strategy and architecture for Grammarly's agent-based assistant, aligning 12+ engineers across 3 teams. Defined and drove a shared vision across web and native platforms to ensure architectural consistency and long-term scalability.
  - Reduced text input lag by 90% in third-party editors when using the Grammarly browser extension. This included designing a new UX which lowered extension disable rate by 9%.
  - Led a 4-person team to eliminate 98% of memory leaks and reduce the extension's memory footprint by 30%, significantly improving performance on less powerful machines.
  - Defined and implemented lab and field performance metrics for Grammarly extension, including Interaction To Next Paint (INP), enhancing observability and preventing performance regressions.
  - Designed and implemented an improved Grammarly integration with Overleaf, increasing 2-week retention rate by 61.3%.

- **Coursera, Mountain View**   October 2014 - December 2021
  Senior Staff Software Engineer

  - Led the development of Coursera's design system to ensure product features meet accessibility standards (WCAG 2.2 AA) and use consistent design patterns. It helped improve code quality and developer productivity by reusing components and APIs. 20+ designers and 60+ engineers spread across the USA, Canada, UK, and Dubai used the system.
  - Led the adoption and migration to TypeScript at Coursera to enable type-safety in the entire front-end codebase. The majority of the codebase (>50%) was in TypeScript, and it became the default programming language used by 60+ engineers.
  - Led the design, prototyping, and development of WYSIWYG content authoring tools for instructors, enabling them to author and publish all courses on Coursera.
  - Built key product features including course rating systems, interactive video transcripts, in-browser coding and framework to deliver realtime tips to learners.
  - Helped define long-term architecture, plan execution on engineering-wide initiatives, and perform technical design reviews as part of the architecture group at Coursera.

- **LinkedIn, Mountain View**   July 2013 - October 2014
  Software Engineer

  - Led the design and implementation of MVC-based frontend architecture for Sales Navigator. Built key product features including login, onboarding and search.

- **Department of Computer Science, Virginia Tech**   August 2011 - May 2013
  Graduate Research Assistant

    - Built Contextinator for my Master's Thesis (*http://ankitahuja.com/thesis/*), a browser extension that lets users divide their web browsing sessions into projects.

- **Khan Academy, Mountain View**   May - August 2012
  Software Developer Intern

    - Designed and implemented the client and backend for user discussions displayed in different contexts on khanacademy.org.

Side Projects

- **Stylebot** - *https://stylebot.dev/*

  Lets users manipulate the appearance of any webpage through a WYSIWYG interface in the web browser. More than 200,000 active users and featured on Chrome and Firefox.

- **Vue Photos** - *https://ankitahuja.com/vue-photos*

  A minimal Vue library to display self-hosted photo albums.

Education

- **M.S. Computer Science**   May 2013
  Specializing in Human Computer Interaction
  Virginia Tech, Blacksburg, VA
  GPA: 3.95 / 4.0

- **B.E. Computer Science and Engineering**   August 2010
  SBIT, MDU, India

Talks and Writing

- **Improving End-to-End Testing at Coursera using Puppeteer and Jest** - *https://medium.com/coursera-engineering/ improving-end-to-end-testing-at-coursera-using-puppeteer-and-jest-5f1bac9cd176*

- **Make editing courses on Coursera fun** - *https://medium.com/coursera-engineering/make-editing-courses-on-coursera-fun-bf6635f44cbf*

- **Contextinator - Project-based Management of Personal Information on the Web** - Ankit Ahuja, Ben Hanrahan and Manuel A. Perez-Quinones: WEBIST 2014

- **Virtual Town Square - Building a Local Information Ecosystem** - Ankit Ahuja: Center for HCI Seminar Series, Virginia Tech, Blacksburg, VA; Feb 2013

- **Designing a Location-Based Interface for a Hyper-local News Aggregator** - Ankit Ahuja, Andrea Kavanaugh: Open Locast U Symposium, MIT Mobile Experience Lab, MIT, Cambridge, MA; Jan 2013