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Designing GCP infrastructure with AI and trends in AI coding workflows

This presentation explores how AI is transforming cloud infrastructure provisioning and management. The core of the discussion centers on AI-assisted infrastructure design for Google Cloud, detailing its end-to-end workflow from initial application code to secure deployment. The agent generates production-ready, validated Terraform designs and architecture diagrams after performing a deep-tissue scan of the application repository. Critically, it includes a best practices assessment, validating the design against security policies and remediating violations before provisioning. Finally, the presentation covers the recent spec-driven-development trend in AI coding, with a simple example.