Marietta GA 30064 **David Harris Kiesel** david.jobs@suddenthought.net
https://suddenthought.net/resume

Summary   Software engineer with full stack and big data experience. Provides cogent analysis and innovative solutions.

Certifications • Google Cloud Certified Professional Data Engineer, Oct 2021-2023

Skills
- Google Cloud Platform
- SQL
- Shell Scripting
- Google BigQuery
- Python
- Jupyter Notebooks
- Google Cloud Functions
- Java
- Tableau Workbooks

Work Experience

The Home Depot, Atlanta, GA   **2010-present**
Staff Software Engineer   Data Management Team

- oversaw enterprise BigQuery usage; > 600 projects, > 15 PB of data
- analyzed queries, recommended resource changes or optimizations to reduce costs
- developed ETL processes for Google metadata and reports to analyze usage
- tested and documented database features; created feature requests and bug reports
- wrote guides and provided training on code development
- developed ETL processes for business data

Coca-Cola Enterprises, Atlanta, GA   **2006-2010**
Programmer Analyst   Business Information Systems

- software development and operations support
- developed Tivoli Workload Scheduler jobs, KornShell scripts, Teradata SQL
- developed tools for job monitoring, report balancing, database extract acceleration

UNISYS, Atlanta, GA   **2001-2006**
Web/Database Applications Developer   Region 4 GSA PBS Contract

- developed billing accuracy report using SQL and ASP.NET; found millions of dollars of discrepancies and the region excelled in national performance measures
- developed SQL and VBScript code to mirror Sybase, Oracle, Lotus Notes databases in MS SQL Server; facilitated cross-database queries

Nortel Networks, Alpharetta, GA   **1997-2001**
Senior Systems Engineer   Optical Networks

- product expert: 1.5 Mbps - 40 Gbps; DSN, SONET, Ethernet, DWDM; linear and rings
- conducted field deployments, fiber loss and dispersion testing, lab trials
- link engineering and responses for quotes and proposals; Telcordia compliance
- developed C++ network planning tools to find least-cost long haul and metro designs

Internships   **Honeywell**, Clearwater, FL   **1996**
Engineering Intern   Space and Strategic Systems Operations

- programmed LabVIEW controls for synthesizer over NI-DAQ and GPIB buses

3M, St. Paul, MN   **1995**
Engineering Intern   Process, Instrumentation, and Control Systems

- assisted with installation of web handling machinery controls, programming PLCs

Education	**Georgia Institute of Technology**	**1996**
	Master of Science in Electrical Engineering; Math Minor	GPA: 3.8/4.0
	Subjects: telecom, DSP, controls, computer architecture, microcontrollers, MATLAB	
	Massachusetts Institute of Technology	**1993**
	Bachelor of Science in Aerospace Engineering; Literature Minor	GPA: 4.4/5.0
	Subjects: structural mechanics, thermodynamics, fluid dynamics, C, Fortran	