

John Kleist

218 South Grant Avenue
Fort Collins, CO 80521
970-484-3754
johnk@frii.com

Objective: Part time position as a scientific programmer.

SUMMARY

- 30 years of data analysis and scientific software development experience using FORTRAN, C, Perl on various platforms including MS DOS, Windows, Linux, Unix and other operating systems.
- 6 years of experience developing commercial software as a member of a engineering team.
- 15 years of experience with website back-end development including SQL (MySQL, PostgreSQL), Perl CGI, HTML, Apache configuration, CSS, Javascript and PHP.
- Many years of Linux/UNIX system administration work and tools development as needed to support the software development.
- Working knowledge of Pascal, Python, awk, Unix shell and other languages.
- Working knowledge of scientific tools: PDL, ArcGIS, GRASS, GrADS, IDL, Ferret, SCRIP and others.
- Working knowledge of version control and bug tracking tools: CVS, Subversion, Trac.
- Able to quickly learn new subject areas, languages, and other required skills.

EDUCATION

- Metropolitan State College, Denver, CO, B.S., Mathematics, 1977.
- Colorado State University, Fort Collins, CO, additional classes in computer science, statistics and atmospheric science.

EXPERIENCE

- **Research Associate**, Falcon Research and Development, Denver, CO 1977 - 1979
Performed vulnerability analysis on a variety of military systems. This involved engineering analysis and modifying complex FORTRAN programs. Performed systems administration on a Harris minicomputer.
- **Research Coordinator**, Colorado Climate Center, Department of Atmospheric Science, Colorado State University, Fort Collins, CO 1979-1999
Wrote many programs to analyze climatic data. Assisted students in their research activities. Participated in field projects. Developed the Standardized Precipitation Index (SPI). Installed and maintained automated weather stations. Administered Windows, Unix and Linux systems.
- **Senior Research Associate**, Denning Research Group, Department of Atmospheric Science, Colorado State University, Fort Collins, CO 1999-2006
Performed systems administration on a variety of Windows, Mac OS, Unix and Linux systems. Build and maintained three Linux clusters. Wrote code to analyze various data sets and model output. Wrote code to interpolate meteorological data for model input. Extensive use of climate and mesoscale models: RAMS, BUGS, PCTM, SiB. Development of the PCTM transport model. Assisted students in their research.
- **Software Engineer**, Privacy Networks, Fort Collins, CO 2003-2009
Responsible for development of the spam filter component in a email security suite. Wrote scripts that automated the testing process. Wrote scripts that monitored critical system processes. Wrote scripts that maintained usage statistics. Maintained components of an email archive system including HTML filtering and license authentication.
- **Non-student Hourly Coordinator**, Colorado Climate Center, Department of Atmospheric Science, Colorado State University, Fort Collins, CO 2006-present

Responsible for data ingest, quality control and Web development for Colorado Agricultural Meteorological network (CoAgMet). Responsible for maintenance of a SQL database. Currently working on automated data fill and quality control code.

SELECTED PUBLICATIONS

- "Development of a surface water supply index for the Western United States". Doesken, Nolan J., Thomas B. McKee and John Kleist, 1991: Climo Report 91-3, Dept. of Atmos. Sci., CSU, Fort Collins, CO, November,
- "A snapshot of Colorado's climate during the 20th century". Kleist, John, Nolan J. Doesken and Thomas B. McKee, 1991: Climo Report 91-2, Dept. of Atmos. Sci., CSU, Fort Collins, CO, June, 42 pp.
- "Drought Monitoring with Multiple Time Scales". McKee, T.B, N.J. Doesken, and J. Kleist, 1995 9th AMS Conference on Applied Climatology, 15-20 January 1995, Dallas, Texas.
- "Climate Data Continuity with ASOS (Report for Period Sept 1994 - March 1996)". McKee, Thomas B., Nolan J. Doesken, and John Kleist, 1996: . Climo Rpt 96-1, Dept. of Atmos. Sci., CSU, Fort Collins, CO March,
- "Historical Dry and Wet Periods in Colorado". McKee, Thomas B, Nolan J. Doesken, and John Kleist, 1999: , Climatology Report 99-1, Part A: Technical Report, Part B: Appendices, Dept. of Atmos. Sci., CSU, Fort Collins, CO, July
- "Evaluation of Simulated Boundary Layer Depth at the WLEF-TV Tower Site". Denning, A. S., N. Zhang, X. Yi, M. Branson, P. Bakwin, K. Davis, and J. Kleist. Agriculture and Forest Meteorology.